

BAB VI

KESIMPULAN DAN SARAN

6.1 Kesimpulan

Beberapa kesimpulan yang dapat ditarik dari hasil perancangan sistem informasi untuk menyusun penjadwalan dari suatu proyek dengan menggunakan bahasa komputer JAVA adalah sebagai berikut :

1. Hasil validasi program Anggaran Biaya Konstruksi khususnya pada Kurva S dan *Bar-Charts* menunjukkan tidak ada perbedaan antara perhitungan menggunakan Microsoft Excel dengan program Anggaran Biaya Konstruksi, artinya program ini valid untuk digunakan dalam membantu menghitung anggaran biaya dan penjadwalan konstruksi suatu proyek
2. Kurva S dan *Bar-Charts* yang dihasilkan dapat disimpan dalam bentuk *PNG*
3. Kurva S dan *Bar-Charts* yang dihasilkan dapat diperbesar dan diperkecil sehingga bisa mempermudah *user* dalam membaca data yang dihasilkan
4. Kurva S dan *Bar-Charts* dapat dicetak sampai dengan ukuran A3 bila *printer* yang digunakan mendukung untuk itu.

6.2 Saran

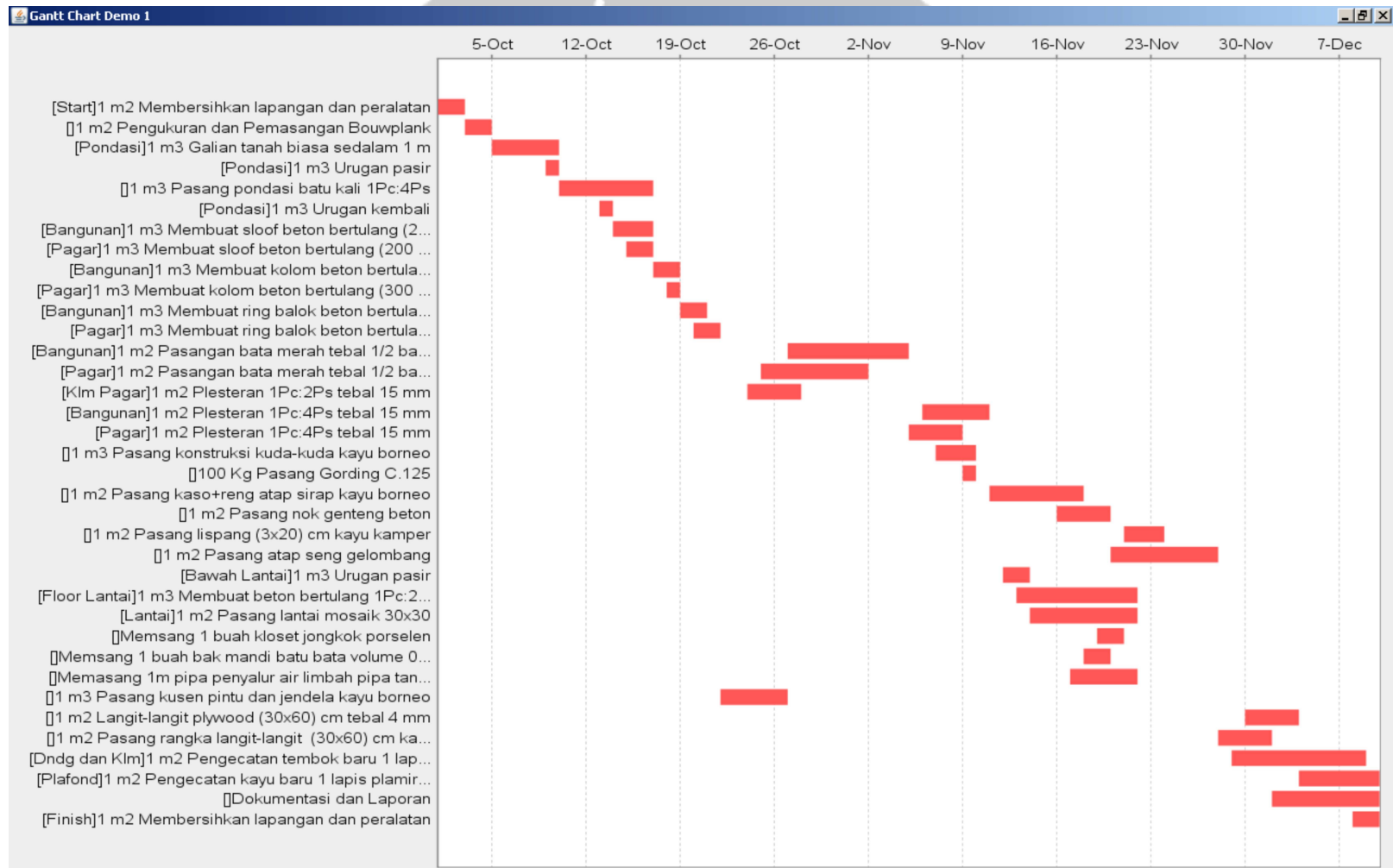
Dari beberapa kelebihan fitur penjadwalan pada program Anggaran Biaya Konstruksi yang disebutkan pada kesimpulan di atas, masih terdapat beberapa kekurangan, antara lain:

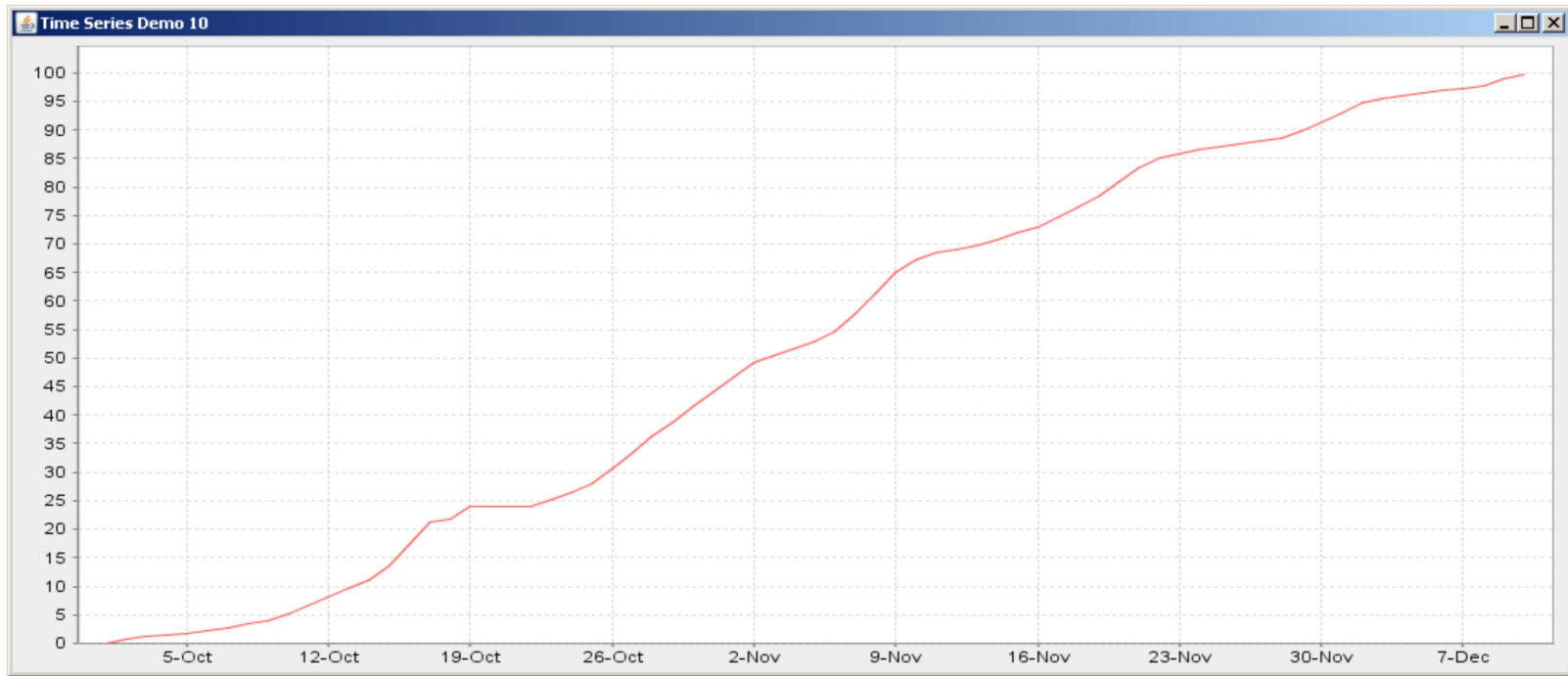
1. Penjadwalan pada program Anggaran Biaya Konstruksi tidak hanya dapat disusun dengan asumsi hari minggu tetap dihitung sebagai hari kerja, dan tidak ada hari libur.
2. Penjadwalan pada program Anggaran Biaya Konstruksi menghasilkan Kurva S dan *Bar-Charts* pada *form* masing-masing.



DAFTAR PUSTAKA

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- Nugroho, A., 2008, *Alogaritma Dan Struktur Data Dalam Bahasa JAVA*, C.V ANDI OFFSET.
- Proboyo, B., 1999, Keterlambatan Waktu Pelaksanaan Proyek: Klasifikasi Dan Peringkat Dari Penyebab-Penyebabnya, *Dimensi Teknik Sipil*, vol.1, no.1, pp.50 – 51.
- Rickyanto, I., 2003, *Dasar Pemrograman Berorientasi Objek Dengan JAVA 2 (JDK 1.4)*, C.V ANDI OFFSET.
- Sastratmadja, A., dan Soedradjat, Ir., 1994, *Analisa (cara modern) Anggaran Biaya Pelaksanaa*, Bandung : Nova.





Tanggal Mulai	Nama Subpekerjaan	Durasi	Bobot
10/1/09	Membersihkan lapangan dan peralatan Start	2	1.239
10/3/09	Pengukuran dan Pemasangan Bouwplank	2	0.407
10/5/09	Galian tanah biasa sedalam 1 m Pondasi	5	2.908
10/9/09	Urugan pasir Pondasi	1	0.702
10/10/09	Pasang pondasi batu kali 1Pc:4Ps	7	10.08
10/13/09	Urugan kembali Pondasi	1	0.185
10/14/09	Membuat sloof beton bertulang (200 kg besi+bekesting) Bangunan	3	2.834
10/15/09	Membuat sloof beton bertulang (200 kg besi+bekesting) Pagar	2	2.834
10/17/09	Membuat kolom beton bertulang (300 kg besi+bekesting) Bangunan	2	1.371
10/18/09	Membuat kolom beton bertulang (300 kg besi+bekesting) Pagar	1	1.371
10/19/09	Membuat ring balok beton bertulang (10x15) cm Bangunan	2	0.035
10/20/09	Membuat ring balok beton bertulang (10x15) cm Pagar	2	0.035

Tanggal Mulai	Nama Subpekerjaan	Durasi	Bobot
10/22/09	Pasang kusen pintu dan jendela kayu borneo	5	6.057
10/24/09	Plesteran 1Pc:2Ps tebal 15 mm Klm Pagar	4	0.945
10/25/09	Pasangan bata merah tebal 1/2 bata 1Pc:4Ps Pagar	8	10.97
10/27/09	Pasangan bata merah tebal 1/2 bata 1Pc:4Ps Bangunan	9	10.97
11/5/09	Plesteran 1Pc:4Ps tebal 15 mm Pagar	4	7.053
11/6/09	Plesteran 1Pc:4Ps tebal 15 mm Bangunan	5	7.053
11/7/09	Pasang konstruksi kuda-kuda kayu borneo	3	1.324
11/9/09	100 Kg Pasang Gording C.125	1	0.283
11/11/09	Pasang kaso+reng atap sirap kayu borneo	7	3.110
11/12/09	Urugan pasir Bawah Lantai	2	0.633
11/13/09	Membuat beton bertulang 1Pc:2Ps:3Kr Floor Lantai	9	1.843
11/14/09	Pasang lantai mosaik 30x30 Lantai	8	3.870
11/16/09	Pasang nok genteng beton	4	2.042

Tanggal Mulai	Nama Subpekerjaan	Durasi	Bobot
11/17/09	Memasang pipa penyalur air limbah pipa tanah 15 cm	5	1.460
11/18/09	Memsang bak mandi batu bata volume 0,3 m3	2	0.657
11/19/09	Memsang kloset jongkok porselen	2	1.607
11/20/09	Pasang atap seng gelombang	8	4.011
11/21/09	Pasang lispang (3x20) cm kayu kamper	3	0.935
11/28/09	Pasang rangka langit-langit (30x60) cm kayu borneo	4	4.978
11/29/09	Pengecatan tembok baru 1 lapis plamir,1 lapis cat dasar,2 Dndg dan Klm	10	2.115
11/30/09	Langit-langit plywood (30x60) cm tebal 4 mm	4	1.195
12/2/09	Dokumentasi dan Laporan	8	0.328
12/4/09	Pengecatan kayu baru 1 lapis plamir,1 lapis cat dasar,3 Plafond	6	1.309
12/8/09	Membersihkan lapangan dan peralatan Finish	2	1.239

Form OpenJadwal

```
/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */

/*
 * OpenJadwal.java
 *
 * Created on Apr 26, 2009, 4:25:22 PM
 */
package bak2;

import com.mysql.jdbc.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;

/**
 *
 * @author REIN
 */
public class OpenJadwal extends javax.swing.JFrame {

    private int id;
    private javax.swing.table.DefaultTableModel myModel;
    Perincian_proyek objmodel2 = new Perincian_proyek();
    int idpekerjaan;

    /** Creates new form OpenJadwal */
    public OpenJadwal() {
        initComponents();

        java.awt.Dimension screenSize =
        java.awt.Toolkit.getDefaultToolkit().getScreenSize();
        setLocation((screenSize.width - this.getWidth()) / 2, (75));

        openButton.setEnabled(false);
        refreshTable();
        try {
            bindtable();
        } catch (SQLException ex) {

            Logger.getLogger(OpenJadwal.class.getName()).log(Level.SEVERE, null, ex);
        }
    }

    /** This method is called from within the constructor to
     * initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is
     * always regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN: initComponents
    private void initComponents() {

        proyeklabel = new javax.swing.JLabel();
        txtProyek = new javax.swing.JTextField();
        openButton = new javax.swing.JButton();
    }
}
```

```
cancelButton = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
tabelproyek = new javax.swing.JTable();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

projeklabel.setText("Proyek");

txtProyek.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtProyekActionPerformed(evt);
    }
});

openButton.setText("Open");
openButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        openButtonActionPerformed(evt);
    }
});

cancelButton.setText("Cancel");
cancelButton.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        cancelButtonMouseClicked(evt);
    }
});

tabelproyek.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
tabelproyek.setRowHeight(18);
tabelproyek.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tabelproyekMouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(tabelproyek);

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .add(layout.createSequentialGroup()
        .addGap(19, 19, 19)
        .addComponent(projeklabel)
        .addGap(33, 33, 33)
```

```

        .addComponent(txtProyek,
javax.swing.GroupLayout.PREFERRED_SIZE, 237,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
        .addGap(129, 129, 129)
        .addComponent(openButton)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(cancelButton)))
        .addContainerGap(78, Short.MAX_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(44, 44, 44)
        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 311,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(45, Short.MAX_VALUE)))
        );
    layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(proyeklabel)
        .addComponent(txtProyek,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 245,
Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(openButton)
        .addComponent(cancelButton))
        .addGap(24, 24, 24))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(95, 95, 95)
        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 132,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(96, Short.MAX_VALUE)))
        );
    pack();
} // </editor-fold> // GEN-END: initComponents

private void txtProyekActionPerformed(java.awt.event.ActionEvent evt)
{ // GEN-FIRST:event_txtProyekActionPerformed
    // TODO add your handling code here:
} // GEN-LAST:event_txtProyekActionPerformed

private void openButtonActionPerformed(java.awt.event.ActionEvent
evt) { // GEN-FIRST:event_openButtonActionPerformed

```

```

        if ((!txtProyek.getText().equals("")) {
            String pyk = txtProyek.getText();
            //      coba-coba dulu
            Penjadwalan pnj = new Penjadwalan(this, true);
            //      Ketergantungan pnj = new Ketergantungan(this, true);
            pnj.setVisible(true);
            pnj.setProyek(pyk);
            this.dispose();

        } else {
            JOptionPane.showMessageDialog(null, "Pilih Proyek Pada Tabel
" + "!!!", "Informasi", JOptionPane.INFORMATION_MESSAGE);
        }

    } //GEN-LAST:event_openButtonActionPerformed

    private void tabelproyekMouseClicked(java.awt.event.MouseEvent evt)
    { //GEN-FIRST:event_tabelproyekMouseClicked
        int temp = tabelproyek.getSelectedRow();
        if (tabelproyek.getSelectedRow() >= 0) {
            txtProyek.setText(tabelproyek.getValueAt(temp,
0).toString());

            if ((!txtProyek.getText().equals("")) {
                openButton.setEnabled(true);
                txtProyek.setEditable(false);
            }
        }
    } //GEN-LAST:event_tabelproyekMouseClicked

    private void cancelButtonMouseClicked(java.awt.event.MouseEvent evt)
    { //GEN-FIRST:event_cancelButtonMouseClicked
        // TODO add your handling code here:

        new Pekerjaan().setVisible(true);
        this.dispose();

    } //GEN-LAST:event_cancelButtonMouseClicked

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {
                new OpenJadwal().setVisible(true);
            }

        });
    }

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton cancelButton;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JButton openButton;
    private javax.swing.JLabel proyeklabel;
    private javax.swing.JTable tabelproyek;
    private javax.swing.JTextField txtProyek;
    // End of variables declaration//GEN-END:variables

    private void refreshTable() {

```

```
myModel = new javax.swing.table.DefaultTableModel(new
Object[][]{{}},
    new String[]{"Nama Proyek"}) {

    private static final long serialVersionUID = 1L;
    boolean[] canEdit = new boolean[]{false, false, false};

    public boolean isCellEditable(int rowIndex, int columnIndex)
    {
        return canEdit[columnIndex];
    }
};
tabelproyek.setModel(myModel);
}

private void bindtable() throws SQLException {
    database objModel = new database();
    String data1, data2;
    ResultSet data = objModel.getDataProyek();
    int baris = 0;
    refreshTable();
    myModel.setRowCount(objModel.getTotalRowProyek());
    try {
        while (data.next()) {
            data1 = data.getString("nama_proyek");
            tabelproyek.setValueAt(data1, baris, 0);
            baris++;
        }
    } catch (Exception ex) {
        JOptionPane.showMessageDialog(null,
            "Error fungsi bindTable\n" + ex, "Error",
            JOptionPane.ERROR_MESSAGE);
    }
}
}
```

Form Penjadwalan

```
package bak2;

import java.util.Calendar;
import java.util.Date;
import bak2.BarchartViewer;
import javax.swing.JFrame;
import org.demo.TimeSeriesDemo10;
import org.jfree.ui.RefineryUtilities;
import com.mysql.jdbc.ResultSet;
import java.io.File;
import java.io.InputStream;
import java.sql.*;
import java.text.DecimalFormat;
import java.text.NumberFormat;
import java.util.HashMap;
import java.util.Locale;
import java.util.Map;
import java.util.Properties;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.ImageIcon;
import javax.swing.JOptionPane;
import javax.swing.SwingConstants;
import javax.swing.table.DefaultTableCellRenderer;
import javax.swing.table.TableColumn;
import net.sf.jasperreports.engine.JasperFillManager;
import net.sf.jasperreports.engine.JasperPrint;
import net.sf.jasperreports.view.JasperViewer;

public class Penjadwalan extends javax.swing.JFrame {

    private javax.swing.table.DefaultTableModel myModel;
    Koneksi objConn = new Koneksi();
    int idproyek, idpekerjaan, idstandar, barisbahan, baristenaga,
    idsubpekerjaan, no, idpekerjaanbaru;
    double bantu, bantu1, bantu2, hitung, hitunghargasatuan = 0,
    totalbiaya = 0, jasapemborong;
    boolean save;
    String data1, data2, data3, data4, data5, pemborong,
    keterangan, subpekerjaan, data7;
    Date data6;
    public String namasubpekerjaan, namapekerjaan, namaprojek;
    database objModel = new database();
    Perincian_proyek objModel2 = new Perincian_proyek();
    Sub_Pekerjaan objModel3 = new Sub_Pekerjaan();
    database objModel4 = new database();
    NumberFormat nf = NumberFormat.getNumberInstance(new Locale("en",
    "US"));
    DecimalFormat df = (DecimalFormat) nf;
    javax.swing.JFrame show;

    public Penjadwalan(javax.swing.JFrame parent, boolean modal) {
        //super(parent, modal);
        show = parent;
        initComponents();
        java.awt.Dimension screenSize =
        java.awt.Toolkit.getDefaultToolkit().getScreenSize();
        setLocation((screenSize.width - this.getWidth()) / 2, (20));
        hitung = 0;
    }
}
```

```

        refreshTablePekerjaan(tabelpekerjaan, new int[]{189, 140});
        refreshTableSubPekerjaan(tabelsubpekerjaan, new int[]{105, 80,
80, 80, 80});
        this.setIconImage(new
ImageIcon(getClass().getResource("/image/House.png")).getImage());
    }

    public void setProyek(String namapyk) {
        this.namaprojek = namapyk;
        try {
            idprojek = objModel2.getIdprojek(namaprojek);
            objModel2.getDatahasilperhitunganpekerjaan(idprojek);
        } catch (SQLException ex) {

Logger.getLogger(Penjadwalan.class.getName()).log(Level.SEVERE, null,
ex);
        }
        try {
            bindtablepekerjaan();
            refreshTableSubPekerjaan(tabelsubpekerjaan, new int[]{105,
80, 80, 80, 80});
        } catch (SQLException ex) {

Logger.getLogger(Penjadwalan.class.getName()).log(Level.SEVERE, null,
ex);
        }
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">///GEN-
BEGIN:initComponents
    private void initComponents() {

        jPanel3 = new javax.swing.JPanel();
        jScrollPane3 = new javax.swing.JScrollPane();
        tabelpekerjaan = new javax.swing.JTable();
        jPanel4 = new javax.swing.JPanel();
        jScrollPane4 = new javax.swing.JScrollPane();
        tabelsubpekerjaan = new javax.swing.JTable();
        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jDateChooser1 = new com.toedter.calendar.JDateChooser();
        jDateChooser2 = new com.toedter.calendar.JDateChooser();
        jButton1 = new javax.swing.JButton();
        durasiSpin = new javax.swing.JSpinner();
        jLabel3 = new javax.swing.JLabel();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        grafikBtn = new javax.swing.JButton();
        kurvaBtn = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
        setTitle("Penjadwalan Proyek");
        setResizable(false);
        addWindowListener(new java.awt.event.WindowAdapter() {
            public void windowClosed(java.awt.event.WindowEvent evt) {
                formWindowClosed(evt);
            }
        }

```

```

});

jPanel3.setBorder(javax.swing.BorderFactory.createTitledBorder(null,
"Pekerjaan", javax.swing.border.TitledBorder.CENTER,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new
java.awt.Font("Tahoma", 1, 11)); // NOI18N

    tabelpekerjaan.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {
            {null, null, null, null},
            {null, null, null, null},
            {null, null, null, null},
            {null, null, null, null}
        },
        new String [] {
            "Title 1", "Title 2", "Title 3", "Title 4"
        }
    ));
    tabelpekerjaan.setRowHeight(18);
    tabelpekerjaan.addMouseListener(new java.awt.event.MouseAdapter() {
        public void mouseClicked(java.awt.event.MouseEvent evt) {
            tabelpekerjaanMouseClicked(evt);
        }
    });
    jScrollPane3.setViewportView(tabelpekerjaan);

    javax.swing.GroupLayout jPanel3Layout = new
    javax.swing.GroupLayout(jPanel3);
    jPanel3.setLayout(jPanel3Layout);
    jPanel3Layout.setHorizontalGroup(
        jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addComponent(jScrollPane3,
                    javax.swing.GroupLayout.DEFAULT_SIZE, 709, Short.MAX_VALUE)
                .addContainerGap())
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addComponent(jScrollPane3,
                    javax.swing.GroupLayout.DEFAULT_SIZE, 154, Short.MAX_VALUE)
                .addContainerGap())
    );

    jPanel4.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Sub
Pekerjaan", javax.swing.border.TitledBorder.CENTER,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new
java.awt.Font("Tahoma", 1, 11)); // NOI18N

    tabelsubpekerjaan.setModel(new
    javax.swing.table.DefaultTableModel(
        new Object [][] {
            {null, null, null, null},
            {null, null, null, null},
            {null, null, null, null},
            {null, null, null, null}
        },
        new String [] {
            "Title 1", "Title 2", "Title 3", "Title 4"
        }
    );

```

```

    ));
    tabelsubpekerjaan.setRowHeight(18);
    tabelsubpekerjaan.addMouseListener(new
java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tabelsubpekerjaanMouseClicked(evt);
    }
});
jScrollPane4.setViewportViewView(tabelsubpekerjaan);

    javax.swing.GroupLayout jPanel4Layout = new
    javax.swing.GroupLayout(jPanel4);
    jPanel4.setLayout(jPanel4Layout);
    jPanel4Layout.setHorizontalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jScrollPane4,
    javax.swing.GroupLayout.DEFAULT_SIZE, 709, Short.MAX_VALUE)
    );
    jPanel4Layout.setVerticalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jScrollPane4,
    javax.swing.GroupLayout.DEFAULT_SIZE, 360, Short.MAX_VALUE)
    );

jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder("Jadwal"));
;

    jLabel1.setText("Tanggal Mulai");
    jLabel2.setText("Tanggal Selesai");

    jDateChooser1.setEnabled(false);
    jDateChooser1.addMouseListener(new java.awt.event.MouseAdapter()
{
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jDateChooser1MouseClicked(evt);
    }
});

    jDateChooser2.setEnabled(false);

    jButton1.setText("Input");
    jButton1.setEnabled(false);
    jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

    durasiSpin.setModel(new javax.swing.SpinnerNumberModel(1, 1,
1000, 1));
    durasiSpin.setEnabled(false);

    jLabel3.setText("Durasi");

    jButton2.setText("Execute");
    jButton2.setEnabled(false);
    jButton2.addActionListener(new java.awt.event.ActionListener() {

```

```

        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });

    jButton3.setText("Ketergantungan");
    jButton3.setEnabled(false);
    jButton3.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton3ActionPerformed(evt);
        }
    });

    grafikBtn.setText("Bar-Charts");
    grafikBtn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            grafikBtnActionPerformed(evt);
        }
    });

    kurvaBtn.setText("Kurva S");
    kurvaBtn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            kurvaBtnActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout jPanel1Layout = new
    javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1)
                .addComponent(jLabel2)
                .addComponent(jLabel3)
                .addGap(25, 25, 25)
            )
        )
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addComponent(durasiSpin,
                    javax.swing.GroupLayout.PREFERRED_SIZE, 66,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jButton2)
            )
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(jDateChooser2,
                    javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jDateChooser1,
                    javax.swing.GroupLayout.DEFAULT_SIZE, 174, Short.MAX_VALUE))
                .addComponent(jButton1)
                .addGap(20, 20, 20)
            )
        )
    );

```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup())
        .addGap(100, 100, 100)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.TRAILING)
        .addComponent(kurvaBtn,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, 87, Short.MAX_VALUE)
        .addComponent(grafikBtn,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(116, 116, 116))
    .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(83, 83, 83)
        .addComponent(jButton3)
        .addContainerGap(107, Short.MAX_VALUE))
    );
jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup())
        .addContainerGap()

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.TRAILING)
        .addComponent(jLabel1)
        .addComponent(jDateChooser1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.TRAILING)
        .addComponent(jLabel2)
        .addComponent(jDateChooser2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)
        .addComponent(durasiSpin,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel3)
        .addComponent(jButton2))
        .addGap(26, 26, 26)
        .addComponent(jButton1)
        .addGap(93, 93, 93)
        .addComponent(jButton3)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 184,
Short.MAX_VALUE)

```

```

        .addComponent(grafikBtn,
javafx.swing.GroupLayout.PREFERRED_SIZE, 32,
javafx.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(11, 11, 11)
        .addComponent(kurvaBtn,
javafx.swing.GroupLayout.PREFERRED_SIZE, 34,
javafx.swing.GroupLayout.PREFERRED_SIZE))
    );

    jButton4.setText("Close");
    jButton4.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton4ActionPerformed(evt);
        }
    });

    jButton5.setText("Print Data");
    jButton5.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton5ActionPerformed(evt);
        }
    });

    javafx.swing.GroupLayout layout = new
    javafx.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(

    layout.createParallelGroup(javafx.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()

    .addGroup(layout.createParallelGroup(javafx.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel13,
javafx.swing.GroupLayout.DEFAULT_SIZE,
javafx.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jPanel14,
javafx.swing.GroupLayout.DEFAULT_SIZE,
javafx.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

    .addPreferredGap(javafx.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(layout.createParallelGroup(javafx.swing.GroupLayout.Alignment.TRAILING, false)
        .addComponent(jPanel11,
javafx.swing.GroupLayout.PREFERRED_SIZE,
javafx.swing.GroupLayout.DEFAULT_SIZE,
javafx.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jButton5)

    .addPreferredGap(javafx.swing.LayoutStyle.ComponentPlacement.RELATED,
javafx.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jButton4)))
        .addContainerGap())
    );
    layout.setVerticalGroup(

    layout.createParallelGroup(javafx.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()

```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
        layout.createSequentialGroup()
            .addComponent(jPanel1,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton4)
                .addComponent(jButton5)))
            .addGroup(layout.createSequentialGroup()
                .addComponent(jPanel3,
                    javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel4,
                    javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
            .addContainerGap()
        );
    pack();
} // </editor-fold> // GEN-END: initComponents
private void tabelpekerjaanMouseClicked(java.awt.event.MouseEvent evt)
{ // GEN-FIRST: event_tabelpekerjaanMouseClicked
    int temp = tabelpekerjaan.getSelectedRow();
    namapekerjaan = tabelpekerjaan.getValueAt(temp, 0).toString();
    if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
    Persiapan")) {
        idpekerjaanbaru = 1;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
    Tanah")) {
        idpekerjaanbaru = 2;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
    Pondasi")) {
        idpekerjaanbaru = 3;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
    Beton")) {
        idpekerjaanbaru = 4;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
    Dinding")) {
        idpekerjaanbaru = 5;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
    Plesteran")) {
        idpekerjaanbaru = 6;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
    Kayu")) {
        idpekerjaanbaru = 7;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
    Penutup Atap")) {
        idpekerjaanbaru = 8;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
    Langit-Langit")) {
        idpekerjaanbaru = 9;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
    Sanitasi")) {

```

```

        idpekerjaanbaru = 10;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Penutup Lantai & Dinding")) {
        idpekerjaanbaru = 11;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Besi & Aluminium")) {
        idpekerjaanbaru = 12;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Pengecatan")) {
        idpekerjaanbaru = 13;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Kunci & Kaca")) {
        idpekerjaanbaru = 14;
    } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Lain-Lain")) {
        idpekerjaanbaru = 15;
    }
    try {
        idpekerjaan = objModel2.getIdpekerjaan(idstandar,
namapekerjaan);
        objModel2.getDate(idproyek, namapekerjaan);
    } catch (SQLException ex) {
        Logger.getLogger(Penjadwalan.class.getName()).log(Level.SEVERE, null,
ex);
    }
    try {
        bindtablesubpekerjaan();
    } catch (SQLException ex) {
        Logger.getLogger(Penjadwalan.class.getName()).log(Level.SEVERE, null,
ex);
    }
    jButton3.setEnabled(false);
    jButton1.setEnabled(false);
    jButton2.setEnabled(false);
    jDateChooser1.setEnabled(false);
    durasiSpin.setEnabled(false);
}

//GEN-LAST:event_tabelpekerjaanMouseClicked
private void tabelsubpekerjaanMouseClicked(java.awt.event.MouseEvent evt)
{
    //GEN-FIRST:event_tabelsubpekerjaanMouseClicked
    int temp = tabelsubpekerjaan.getSelectedRow();
    namasubpekerjaan = tabelsubpekerjaan.getValueAt(temp, 0).toString();

    Date tglm1 = (Date) tabelsubpekerjaan.getValueAt(temp, 1);
    jDateChooser1.setDate(tglm1);

    String volumesubpekerjaan = tabelsubpekerjaan.getValueAt(temp,
2).toString();

    String durasi = null;
    try {
        durasi = tabelsubpekerjaan.getValueAt(temp, 3).toString();
    } catch (Exception e) {
    }
    if (durasi != null) {
        durasiSpin.setValue(Integer.parseInt(durasi));
    }
}

```

```

    }
    durasi = null;

    Date startDate = jDateChooser1.getDate();
    if (startDate != null) {
        Calendar cld = Calendar.getInstance();
        cld.setTime(startDate);
        // cld.add(Calendar.DAY_OF_YEAR, (Integer) durasiSpin.getValue());
        cld.add(Calendar.DAY_OF_YEAR, ((Integer) durasiSpin.getValue())-
1);
        jDateChooser2.setDate(cld.getTime());
    }
    keteranganSubpekerjaan = tabelSubpekerjaan.getValueAt(temp,
4).toString();
    String standarproyek = tabelSubpekerjaan.getValueAt(temp,
5).toString();
    try {
        tabelpekerjaan.clearSelection();
        idstandar = objModel.getIdstandar(standarproyek);
        idpekerjaan = objModel.getIdpekerjaan(idstandar, namapekerjaan);
        idsubpekerjaan = objModel2.getId(namasubpekerjaan, idpekerjaan);
        hitunghargasatuan = bantu1 + bantu2;

    } catch (SQLException ex) {
        Logger.getLogger(Penjadwalan.class.getName()).log(Level.SEVERE,
null, ex);
    }
    jButton3.setEnabled(true);
    // jButton1.setEnabled(true);
    jButton2.setEnabled(true);
    jDateChooser1.setEnabled(true);
    durasiSpin.setEnabled(true);

} // GEN-LAST:event_tabelSubpekerjaanMouseClicked

private String reportPath(String reportName, String reportDirName) {
    Properties systemProp = System.getProperties(); // Ambil current
dir

    String currentDir = systemProp.getProperty("user.dir");
    File dir = new File(currentDir);
    File fileRpt;
    String fullPath = "";
    String reportDir = "";
    try {
        if (dir.isDirectory()) {
            String[] isiDir = dir.list();
            for (int i = 0; i < isiDir.length; i++) {
                fileRpt = new File(currentDir + File.separatorChar +
isiDir[i] + File.separatorChar +
reportDirName + File.separatorChar +
reportName);
                if (fileRpt.isFile()) { // Cek apakah
kuitansiOrder.jrxml ada

                    fullPath = fileRpt.toString();
                } // end if
            } // end for i
        } // end if
    } // end if
}

```

```

        // Ambil Direktori tempat file PurchaseOrder.jrxml berada
        String[] subRptDir = fullPath.split(reportName);
        reportDir = subRptDir[0];
        System.out.println("Report Directory at : " + reportDir +
reportName);
    } catch (Exception ex) {
    }
    //JOptionPane.showMessageDialog(this, reportDir + reportName);
    return reportDir + reportName;
}
private void formWindowClosed(java.awt.event.WindowEvent evt) {//GEN-
FIRST:event_formWindowClosed
// TODO add your handling code here:
    show.setEnabled(true);
    show.toFront();
} //GEN-LAST:event_formWindowClosed

private void jDateChooser1MouseClicked(java.awt.event.MouseEvent evt)
{ //GEN-FIRST:event_jDateChooser1MouseClicked
    // TODO add your handling code here:
} //GEN-LAST:event_jDateChooser1MouseClicked

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_jButton1ActionPerformed
    try {
        System.out.println(idproyek);
        System.out.println(idstandar);
        System.out.println(namasubpekerjaan);
        System.out.println(keterangansubpekerjaan);
        objModel4.updateTanggalselesai(idproyek, idstandar,
namasubpekerjaan, keterangansubpekerjaan, jDateChooser2.getDate());
        objModel4.inputpersenhari(idproyek, idstandar, namasubpekerjaan,
keterangansubpekerjaan);
    } catch (SQLException ex) {
        Logger.getLogger(Penjadwalan.class.getName()).log(Level.SEVERE,
null, ex);
    }

    // try {
    //     System.out.println(idproyek);
    //     System.out.println(idstandar);
    //     System.out.println(namasubpekerjaan);
    //     System.out.println(keterangansubpekerjaan);
    //     System.out.println(data6);
    //     objModel4.inputDurasi(idproyek, idstandar, namasubpekerjaan,
keterangansubpekerjaan, (Integer) jSpinner1.getValue());
    // } catch (SQLException ex) {
    //     Logger.getLogger(Penjadwalan.class.getName()).log(Level.SEVERE,
null, ex);
    // }

    refreshTableSubPekerjaan(tabelsubpekerjaan, new int[]{105, 80, 80,
80, 80});

    jButton1.setEnabled(false);

} //GEN-LAST:event_jButton1ActionPerformed

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_jButton2ActionPerformed
    Date startDate = jDateChooser1.getDate();

```

```

Calendar cld = Calendar.getInstance();
cld.setTime(startDate);
cld.add(Calendar.DAY_OF_YEAR, ((Integer) durasiSpin.getValue())-1);
jDateChooser2.setDate(cld.getTime());

try {
    System.out.println(idproyek);
    System.out.println(idstandar);
    System.out.println(namasubpekerjaan);
    System.out.println(keterangansubpekerjaan);
    System.out.println(data6);
    objModel4.inputDurasi(idproyek, idstandar, namasubpekerjaan,
keterangansubpekerjaan, (Integer) durasiSpin.getValue());

    objModel4.updateTanggalmulai(idproyek, idstandar,
namasubpekerjaan, keterangansubpekerjaan, jDateChooser1.getDate());

} catch (SQLException ex) {
    Logger.getLogger(Penjadwalan.class.getName()).log(Level.SEVERE,
null, ex);
}

jButton1.setEnabled(true);
jButton3.setEnabled(false);

} //GEN-LAST:event_jButton2ActionPerformed

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_jButton3ActionPerformed

//        Penjadwalan pnj = new Penjadwalan(this, true);

    System.out.println(idstandar);
    System.out.println(namasubpekerjaan);
    System.out.println(keterangansubpekerjaan);
    System.out.println(namaprojek);

    Ketersangkutan pnj = new Ketersangkutan(this, true);
    pnj.setStandar(idstandar);
    pnj.setNamaSubPekerjaan(namasubpekerjaan);
    pnj.setKeterangan(keterangansubpekerjaan);
    pnj.setVisible(true);
    pnj.setProyek(this.namaprojek);

} //GEN-LAST:event_jButton3ActionPerformed

private void grafikBtnActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_grafikBtnActionPerformed
    // TODO add your handling code here:
    System.out.println("Id Proyek" + idproyek);
    final BarchartViewer demo = new BarchartViewer("Gantt Chart Demo 1",
idproyek);
    demo.pack();
    RefineryUtilities.centerFrameOnScreen(demo);
    demo.setVisible(true);

} //GEN-LAST:event_grafikBtnActionPerformed

private void kurvaBtnActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_kurvaBtnActionPerformed
    try {
        // TODO add your handling code here:

```

```

        final TimeSeriesDemo10 demo = new TimeSeriesDemo10("Time Series
Demo 10", idproyek);
        demo.pack();
        RefineryUtilities.centerFrameOnScreen(demo);
        demo.setVisible(true);
        demo.setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
    } catch (SQLException ex) {
        ex.printStackTrace();
    }

}

} // GEN-LAST:event_kurvaBtnActionPerformed

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt)
{ // GEN-FIRST:event_jButton4ActionPerformed
    // TODO add your handling code here:

    new Pekerjaan().setVisible(true);
    this.dispose();

} // GEN-LAST:event_jButton4ActionPerformed

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt)
{ // GEN-FIRST:event_jButton5ActionPerformed

    try {

        Map<String, Object> parameters = new HashMap<String,
Object>();

        parameters.put("idproyek", idproyek); // parameter

        InputStream is6 =
getClass().getResourceAsStream("/print/durasi.jasper");

        JasperPrint JPrint6 = JasperFillManager.fillReport(is6,
parameters, objConn.getKoneksi()); // koneksi

        JasperViewer.viewReport(JPrint6, false);

    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, "Pilih Proyek yang mau
diPrint & Isi Jasa Pemborong dengan Angka" + "!!!");
    }
    System.out.println(namaproyek);
    System.out.println(idproyek);
    System.out.println(jasapemborong);

} // GEN-LAST:event_jButton5ActionPerformed

public static void main(String args[]) {
    java.awt.EventQueue.invokeLater(new Runnable() {

```

```

        public void run() {
            Penjadwalan dialog = new Penjadwalan(new
            javax.swing.JFrame(), true);
            dialog.addWindowListener(new
            java.awt.event.WindowAdapter() {

                public void windowClosing(java.awt.event.WindowEvent
            e) {
                    System.exit(0);
                }
            });
            dialog.setVisible(true);
        }
    });
}
// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JSpinner durasiSpin;
private javax.swing.JButton grafikBtn;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private com.toedter.calendar.JDateChooser jDateChooser1;
private com.toedter.calendar.JDateChooser jDateChooser2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel3;
private javax.swing.JPanel jPanel4;
private javax.swing.JScrollPane jScrollPane3;
private javax.swing.JScrollPane jScrollPane4;
private javax.swing.JButton kurvaBtn;
private javax.swing.JTable tabelpekerjaan;
private javax.swing.JTable tabelsubpekerjaan;
// End of variables declaration//GEN-END:variables

private void refreshTablePekerjaan(javax.swing.JTable tb, int
lebar[]) {
    myModel = new javax.swing.table.DefaultTableModel(new
Object[][]{{}},
        new String[]{"Pekerjaan"}) {

        private static final long serialVersionUID = 1L;
        boolean[] canEdit = new boolean[]{false, false};

        public boolean isCellEditable(int rowIndex, int columnIndex)
    {
        return canEdit[columnIndex];
    }
    };
    tabelpekerjaan.setModel(myModel);
    tb.setAutoResizeMode(tb.AUTO_RESIZE_ALL_COLUMNS);
    int kolom = 1;
    for (int i = 0; i <
        kolom; i++) {
        javax.swing.table.TableColumn tbc =
        tb.getColumnModel().getColumn(i);
        tbc.setPreferredWidth(lebar[i]);
    }
    DefaultTableCellRenderer renderer = new
DefaultTableCellRenderer();

```

```

        renderer.setHorizontalAlignment(SwingConstants.RIGHT);

//        TableColumn tc = tabelpekerjaan.getColumn("Durasi");
//        tc.setCellRenderer(renderer);
//        tabelpekerjaan.updateUI();
    }

    private void refreshTableSubPekerjaan(javax.swing.JTable tb, int
lebar[]) {
        myModel = new javax.swing.table.DefaultTableModel(new
Object[][]{
            new String[]{"Sub Pekerjaan", "Tgl.Mulai", "Bobot",
"Durasi", "Keterangan", "Standar"}
        },
        private static final long serialVersionUID = 1L;
        boolean[] canEdit = new boolean[]{false, false, false, false,
false});

        public boolean isCellEditable(int rowIndex, int columnIndex)
        {
            return canEdit[columnIndex];
        }
    };
    tabelsubpekerjaan.setModel(myModel);
    tb.setAutoResizeMode(tb.AUTO_RESIZE_OFF);
    int kolom = 5;
    for (int i = 0; i < kolom; i++) {
        javax.swing.table.TableColumn tbc =
        tb.getColumnModel().getColumn(i);
        tbc.setPreferredWidth(lebar[i]);
    }
    DefaultTableCellRenderer renderer = new
DefaultTableCellRenderer();
    renderer.setHorizontalAlignment(SwingConstants.RIGHT);

    TableColumn tc = tabelsubpekerjaan.getColumn("Tgl.Mulai");
    tc.setCellRenderer(renderer);
    TableColumn tc2 = tabelsubpekerjaan.getColumn("Bobot");
    tc2.setCellRenderer(renderer);
    TableColumn tc3 = tabelsubpekerjaan.getColumn("Durasi");
    tc3.setCellRenderer(renderer);
    tabelsubpekerjaan.updateUI();
}

    private void bindtablepekerjaan() throws SQLException {
        ResultSet data =
objModel2.getDatahasilperhitunganpekerjaan(idproyek);
        int baris = 0;
        refreshTablePekerjaan(tabelpekerjaan, new int[]{189, 125});
        try {
            while (data.next()) {
                int a = data.getRow();
                myModel.setRowCount(a);
                data1 = data.getString("pekerjaan");
                tabelpekerjaan.setValueAt(data1, baris, 0);
                baris++;
            }
        } catch (Exception ex) {
            JOptionPane.showMessageDialog(null,
                "Error fungsi bindTable\n" + ex, "Error",
                JOptionPane.ERROR_MESSAGE);
        }
    }
}

```

```

private void bindtablesubpekerjaan() throws SQLException {
    ResultSet data = objModel2.getDate(idproyek, namapekerjaan);
    int baris = 0;
    refreshTableSubPekerjaan(tabelsubpekerjaan, new int[]{230, 100,
100, 100, 100, 100});
    try {
        while (data.next()) {
            int b = data.getRow();
            myModel.setRowCount(b);
            data1 = data.getString("namasubpekerjaan");
            tabelsubpekerjaan.setValueAt(data1, baris, 0);
            data6 = data.getDate("tanggalmulai");
            tabelsubpekerjaan.setValueAt(data6, baris, 1);
            data3 = data.getString("totalsubpekerjaan");
            tabelsubpekerjaan.setValueAt(data3, baris, 2);
            data4 = data.getString("durasi");
            tabelsubpekerjaan.setValueAt(data4, baris, 3);
            data5 = data.getString("keterangan");
            tabelsubpekerjaan.setValueAt(data5, baris, 4);
            data7 = data.getString("standar");
            tabelsubpekerjaan.setValueAt(data7, baris, 5);
            baris++;
        }
    } catch (Exception ex) {
        JOptionPane.showMessageDialog(null,
            "Error fungsi bindTable\n" + ex, "Error",
            JOptionPane.ERROR_MESSAGE);
    }
}

public boolean Cek(String data) {
    int panjang = data.length();
    for (int i = 0; i < panjang; i++) {
        if (((data.charAt(i) >= 48 && data.charAt(i) <= 57) ||
(data.charAt(i) >= 0 && data.charAt(i) <= 32)) && (!data.equals(""))) {
            return true;
        } else {
            return false;
        }
    }
    return true;
}
}

```

Form Ketergantungan

```
package bak2;

import com.mysql.jdbc.ResultSet;
import java.io.File;

import java.sql.SQLException;
import java.text.DecimalFormat;
import java.text.NumberFormat;
import java.util.Calendar;
import java.util.Date;
import java.util.Locale;
import java.util.Properties;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.ImageIcon;
import javax.swing.JOptionPane;
import javax.swing.SwingConstants;
import javax.swing.table.DefaultTableCellRenderer;
import javax.swing.table.TableColumn;

public class Ketergantungan extends javax.swing.JFrame {

    private javax.swing.table.DefaultTableModel myModel;
    Koneksi objConn = new Koneksi();
    int idproyek, idpekerjaan, idstandar, barisbahan, baristenaga,
    idsubpekerjaan, no, idpekerjaanbaru, idstandartampung;
    double bantu, bantu1, bantu2, hitung, hitunghargasatuan = 0,
    totalbiaya = 0, jaspemborong;
    boolean save;
    String data1, data2, data3, data4, data5, pemborong,
    keteranganpekerjaan, data7, keteranganpekerjaantampung;
    Date data6;
    public String namasubpekerjaan, namapekerjaan, namaprojek,
    namasubpekerjaantampung;
    database objModel = new database();
    Perincian_proyek objModel2 = new Perincian_proyek();
    Sub_Pekerjaan objModel3 = new Sub_Pekerjaan();
    database objModel4 = new database();
    NumberFormat nf = NumberFormat.getNumberInstance(new Locale("en",
    "US"));
    DecimalFormat df = (DecimalFormat) nf;
    javax.swing.JFrame show;

    public Ketergantungan(javax.swing.JFrame parent, boolean modal) {
        //super(parent, modal);
        show = parent;
        initComponents();
        java.awt.Dimension screenSize =
        java.awt.Toolkit.getDefaultToolkit().getScreenSize();
        setLocation((screenSize.width - this.getWidth()) / 2, (20));
        hitung = 0;
        refreshTablePekerjaan(tabelpekerjaan, new int[]{189, 140});
        refreshTableSubPekerjaan(tabelsubpekerjaan, new int[]{105, 80,
        80, 80, 80});
        this.setIconImage(new
        ImageIcon(getClass().getResource("/image/House.png")).getImage());
    }

    public void setProyek(String namapyk) {
```

```

        this.namaprojek = namapyk;
        try {
            idprojek = objModel2.getIdprojek(namaprojek);
            objModel2.getDatahasilperhitunganpekerjaan(idprojek);
        } catch (SQLException ex) {

Logger.getLogger(Ketergantungan.class.getName()).log(Level.SEVERE, null,
ex);
        }
        try {
            bindtablepekerjaan();
            refreshTableSubPekerjaan(tabelsubpekerjaan, new int[]{105,
80, 80, 80, 80});
        } catch (SQLException ex) {

Logger.getLogger(Ketergantungan.class.getName()).log(Level.SEVERE, null,
ex);
        }
    }

    public void setStandar(int idstandartampung) {
        this.idstandartampung = idstandartampung;
    }

    public void setNamaSubPekerjaan(String namasubpekerjaantampung) {
        this.namasubpekerjaantampung = namasubpekerjaantampung;
        ketKetergantunganlbl.setText(namasubpekerjaantampung);
    }

    public void setKeterangan(String keteranganpekerjaantampung) {
        this.keteranganpekerjaantampung =
keteranganpekerjaantampung;
        ketKetergantunganlbl.setText(keteranganpekerjaantampung);
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    BEGIN: initComponents
    private void initComponents() {

        jPanel2 = new javax.swing.JPanel();
        jPanel3 = new javax.swing.JPanel();
        jScrollPane3 = new javax.swing.JScrollPane();
        tabelpekerjaan = new javax.swing.JTable();
        jPanel4 = new javax.swing.JPanel();
        jScrollPane4 = new javax.swing.JScrollPane();
        tabelsubpekerjaan = new javax.swing.JTable();
        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jDateChooser1 = new com.toedter.calendar.JDateChooser();
        jDateChooser2 = new com.toedter.calendar.JDateChooser();
        jButton1 = new javax.swing.JButton();
        durasiSpin2 = new javax.swing.JSpinner();
        jLabel3 = new javax.swing.JLabel();
        jButton2 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
    }

```

```

        durasiSpin1 = new javax.swing.JSpinner();
        jDateChooser3 = new com.toedter.calendar.JDateChooser();
        jDateChooser4 = new com.toedter.calendar.JDateChooser();
        ketSubpekerjaan = new javax.swing.JTextField();
        jButton3 = new javax.swing.JButton();
        durasiSpin = new javax.swing.JSpinner();
        ketKetergantunganlbl = new javax.swing.JLabel();
        ketKeteranganketergantunganlbl = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
        setTitle("Ketergantungan");
        setResizable(false);
        addWindowListener(new java.awt.event.WindowAdapter() {
            public void windowClosed(java.awt.event.WindowEvent evt) {
                formWindowClosed(evt);
            }
        });

        jPanel2.setBorder(javax.swing.BorderFactory.createTitledBorder(null,
            "Tergantung Pada", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
            javax.swing.border.TitledBorder.DEFAULT_POSITION, new
            java.awt.Font("Tahoma", 1, 11))); // NOI18N

        jPanel3.setBorder(javax.swing.BorderFactory.createTitledBorder(null,
            "Pekerjaan", javax.swing.border.TitledBorder.CENTER,
            javax.swing.border.TitledBorder.DEFAULT_POSITION, new
            java.awt.Font("Tahoma", 1, 11))); // NOI18N

        tabelpekerjaan.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null, null, null},
                {null, null, null, null},
                {null, null, null, null},
                {null, null, null, null},
            },
            new String [] {
                "Title 1", "Title 2", "Title 3", "Title 4"
            }
        ));
        tabelpekerjaan.setRowHeight(18);
        tabelpekerjaan.addMouseListener(new java.awt.event.MouseAdapter() {
            {
                public void mouseClicked(java.awt.event.MouseEvent evt) {
                    tabelpekerjaanMouseClicked(evt);
                }
            }
        });
        jScrollPane3.setViewportView(tabelpekerjaan);

        javax.swing.GroupLayout jPanel3Layout = new
        javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jScrollPane3,
                    javax.swing.GroupLayout.Alignment.TRAILING,
                    javax.swing.GroupLayout.DEFAULT_SIZE, 502, Short.MAX_VALUE)
        );
        jPanel3Layout.setVerticalGroup(

```

```

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jScrollPane3,
        javax.swing.GroupLayout.Alignment.TRAILING,
        javax.swing.GroupLayout.DEFAULT_SIZE, 114, Short.MAX_VALUE)
    );

```

```

jPanel4.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Sub
Pekerjaan", javax.swing.border.TitledBorder.CENTER,
    javax.swing.border.TitledBorder.DEFAULT_POSITION, new
    java.awt.Font("Tahoma", 1, 11))); // NOI18N

```

```

        tabelsubpekerjaan.setModel(new
        javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null, null, null},
                {null, null, null, null},
                {null, null, null, null},
                {null, null, null, null}
            },
            new String [] {
                "Title 1", "Title 2", "Title 3", "Title 4"
            }
        ));
        tabelsubpekerjaan.setRowHeight(18);
        tabelsubpekerjaan.addMouseListener(new
        java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                tabelsubpekerjaanMouseClicked(evt);
            }
        });
        jScrollPane4.setViewportViewView(tabelsubpekerjaan);

```

```

        javax.swing.GroupLayout jPanel4Layout = new
        javax.swing.GroupLayout(jPanel4);
        jPanel4.setLayout(jPanel4Layout);
        jPanel4Layout.setHorizontalGroup(

```

```

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jScrollPane4,
        javax.swing.GroupLayout.Alignment.TRAILING,
        javax.swing.GroupLayout.DEFAULT_SIZE, 502, Short.MAX_VALUE)
    );

```

```

        jPanel4Layout.setVerticalGroup(

```

```

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jScrollPane4,
        javax.swing.GroupLayout.DEFAULT_SIZE, 149, Short.MAX_VALUE)
    );

```

```

jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(null,
    "Keterangan", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
    javax.swing.border.TitledBorder.DEFAULT_POSITION, new
    java.awt.Font("Tahoma", 1, 11))); // NOI18N

```

```

        jLabel1.setText("Tanggal Mulai");

```

```

        jLabel2.setText("Tanggal Selesai");

```

```

jDateChooser1.setEnabled(false);
jDateChooser1.addMouseListener(new java.awt.event.MouseAdapter()
{
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jDateChooser1MouseClicked(evt);
    }
});

jDateChooser2.setEnabled(false);

jButton1.setText("Input");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel3.setText("Durasi");

jButton2.setText("Execute");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jLabel4.setText("Sub Pekerjaan");
jLabel5.setText("Tanggal Mulai");
jLabel6.setText("Tanggal Selesai");
jLabel7.setText("Durasi");
jLabel8.setText("Lag Time");

jDateChooser3.setEnabled(false);
jDateChooser4.setEnabled(false);

jButton3.setText("Execute");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

durasiSpin.setEnabled(false);

javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap()

```

```

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup())

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                                .addComponent(jLabel5)
                                .addComponent(jLabel4)
                                .addComponent(jLabel6)
                                .addComponent(jLabel7))
                                .addGap(25, 25, 25)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                                .addComponent(durasiSpin,
javax.swing.GroupLayout.PREFERRED_SIZE, 66,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(jDateChooser2,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 244, Short.MAX_VALUE)
                                .addComponent(jDateChooser1,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 244, Short.MAX_VALUE)
                                .addComponent(ketSubpekerjaan,
javax.swing.GroupLayout.DEFAULT_SIZE, 244, Short.MAX_VALUE)))

.addGroup(jPanel1Layout.createSequentialGroup())

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                                .addComponent(jLabel1)
                                .addComponent(jLabel8)
                                .addComponent(jLabel3))
                                .addGap(34, 34, 34)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

                                .addComponent(jDateChooser3,
javax.swing.GroupLayout.DEFAULT_SIZE, 244, Short.MAX_VALUE)

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup())

                                .addComponent(durasiSpin2,
javax.swing.GroupLayout.PREFERRED_SIZE, 66,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 105,
Short.MAX_VALUE)

                                .addComponent(jButton2))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup())

                                .addComponent(durasiSpin1,
javax.swing.GroupLayout.PREFERRED_SIZE, 66,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 105,
Short.MAX_VALUE)

                                .addComponent(jButton3))))

.addGroup(jPanel1Layout.createSequentialGroup())

```

```

        .addComponent(jLabel12)
        .addGap(25, 25, 25)
        .addComponent(jDateChooser4,
javax.swing.GroupLayout.DEFAULT_SIZE, 244, Short.MAX_VALUE)))
        .addContainerGap())
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup())
        .addComponent(jButton1)
        .addGap(146, 146, 146)))
    );
    jPanel1Layout.setVerticalGroup(
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap()

        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jLabel14)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jLabel15))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(ketSubpekerjaan,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jDateChooser1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(11, 11, 11)

            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addComponent(jLabel17)

                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                            .addComponent(jLabel16))
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGroup(jPanel1Layout.createSequentialGroup()
                                .addComponent(durasiSpin,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                .addComponent(jDateChooser2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)))
                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 26,
Short.MAX_VALUE)

```

```

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)
    .addComponent(jLabel8,
javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASEL
INE)
        .addComponent(durasiSpin1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton3)))
    .addGap(12, 12, 12)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)
    .addComponent(jLabel1)
    .addComponent(jDateChooser3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.TRAILING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)
    .addComponent(durasiSpin2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jButton2))
    .addComponent(jLabel13)
    .addGap(12, 12, 12)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.TRAILING)
    .addComponent(jLabel2)
    .addComponent(jDateChooser4,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(28, 28, 28)
    .addComponent(jButton1)
    .addContainerGap()

);

javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addContainerGap()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.TRAILING)

```

```

        .addComponent(jPanel14,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jPanel13,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jPanel11,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap())
    );
jPanel2Layout.setVerticalGroup(
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup())
        .addContainerGap(19, Short.MAX_VALUE)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup())
        .addComponent(jPanel13,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jPanel14,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(51, Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup())
        .addComponent(jPanel11,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(30, 30, 30))))
    );

jPanel11.getAccessibleContext().setAccessibleName("Jadwal");

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jPanel12,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap())
        .addGroup(layout.createSequentialGroup())

```

```

        .addGap(20, 20, 20)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(ketKetergantunganlbl,
                javax.swing.GroupLayout.PREFERRED_SIZE, 509,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(ketKeteranganketergantunganlbl,
                javax.swing.GroupLayout.PREFERRED_SIZE, 509,
                javax.swing.GroupLayout.PREFERRED_SIZE))
            .addContainerGap(418, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(16, 16, 16)
                .addComponent(ketKetergantunganlbl,
                    javax.swing.GroupLayout.PREFERRED_SIZE, 17,
                    javax.swing.GroupLayout.PREFERRED_SIZE)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(ketKeteranganketergantunganlbl,
                    javax.swing.GroupLayout.PREFERRED_SIZE, 17,
                    javax.swing.GroupLayout.PREFERRED_SIZE)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel2,
                    javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
                    Short.MAX_VALUE))
            );

        pack();
    } // </editor-fold> // GEN-END: initComponents

    private void tabelpekerjaanMouseClicked(java.awt.event.MouseEvent evt)
    { // GEN-FIRST:event_tabelpekerjaanMouseClicked
        int temp = tabelpekerjaan.getSelectedRow();
        namapekerjaan = tabelpekerjaan.getValueAt(temp, 0).toString();
        if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
        Persiapan")) {
            idpekerjaanbaru = 1;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
        Tanah")) {
            idpekerjaanbaru = 2;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
        Pondasi")) {
            idpekerjaanbaru = 3;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
        Beton")) {
            idpekerjaanbaru = 4;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
        Dinding")) {
            idpekerjaanbaru = 5;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
        Plesteran")) {
            idpekerjaanbaru = 6;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
        Kayu")) {
            idpekerjaanbaru = 7;

```

```

        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Penutup Atap")) {
            idpekerjaanbaru = 8;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Langit-Langit")) {
            idpekerjaanbaru = 9;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Sanitasi")) {
            idpekerjaanbaru = 10;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Penutup Lantai & Dinding")) {
            idpekerjaanbaru = 11;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Besi & Aluminium")) {
            idpekerjaanbaru = 12;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Pengecatan")) {
            idpekerjaanbaru = 13;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Kunci & Kaca")) {
            idpekerjaanbaru = 14;
        } else if (namapekerjaan.toString().equalsIgnoreCase("Pekerjaan
Lain-Lain")) {
            idpekerjaanbaru = 15;
        }
    }
    try {
        idpekerjaan = objModel2.getIdpekerjaan(idstandar,
namapekerjaan);
        objModel2.getDate(idproyek, namapekerjaan);
    } catch (SQLException ex) {

        Logger.getLogger(Ketertanggung.class.getName()).log(Level.SEVERE, null,
ex);
    }
    try {
        bindtablesubpekerjaan();
    } catch (SQLException ex) {

        Logger.getLogger(Ketertanggung.class.getName()).log(Level.SEVERE, null,
ex);
    }
}

}

//GEN-LAST:event_tabelpekerjaanMouseClicked
private void tabelsubpekerjaanMouseClicked(java.awt.event.MouseEvent evt)
{
//GEN-FIRST:event_tabelsubpekerjaanMouseClicked
    int temp = tabelsubpekerjaan.getSelectedRow();
    namasubpekerjaan = tabelsubpekerjaan.getValueAt(temp, 0).toString();
    Date tglml = (Date) tabelsubpekerjaan.getValueAt(temp, 1);
    jDateChooser1.setDate(tglml);
    String volumesubpekerjaan = tabelsubpekerjaan.getValueAt(temp,
2).toString();

    String durasi = tabelsubpekerjaan.getValueAt(temp, 3).toString();
    durasiSpin.setValue(Integer.parseInt(durasi));

    Date startDate = jDateChooser1.getDate();
    Calendar cld = Calendar.getInstance();
    cld.setTime(startDate);
    //    cld.add(Calendar.DAY_OF_YEAR, (Integer) durasiSpin.getValue());
    cld.add(Calendar.DAY_OF_YEAR, ((Integer) durasiSpin.getValue()-1);
    jDateChooser2.setDate(cld.getTime());
}

```

```

        keteranganSubpekerjaan = tabelSubpekerjaan.getValueAt(temp,
4).toString();
        String standarproyek = tabelSubpekerjaan.getValueAt(temp,
5).toString();
        try {
            tabelpekerjaan.clearSelection();
            idstandar = objModel.getIdstandar(standarproyek);
            idpekerjaan = objModel.getIdpekerjaan(idstandar, namapekerjaan);
            idsubpekerjaan = objModel2.getId(namasubpekerjaan, idpekerjaan);
            hitunghargasatuan = bantu1 + bantu2;
            ketSubpekerjaan.setText(namasubpekerjaan);
        } catch (SQLException ex) {

            Logger.getLogger(Ketertanggung.class.getName()).log(Level.SEVERE, null,
            ex);
        }
    } //GEN-LAST:event_tabelSubpekerjaanMouseClicked

    private String reportPath(String reportName, String reportDirName) {
        Properties systemProp = System.getProperties(); // Ambil current
        dir

        String currentDir = systemProp.getProperty("user.dir");
        File dir = new File(currentDir);
        File fileRpt;
        String fullPath = "";
        String reportDir = "";
        try {
            if (dir.isDirectory()) {
                String[] isiDir = dir.list();
                for (int i = 0; i < isiDir.length; i++) {
                    fileRpt = new File(currentDir + File.separatorChar +
isiDir[i] + File.separatorChar +
                    reportDirName + File.separatorChar +
reportName);
                    if (fileRpt.isFile()) { // Cek apakah
kuitansiOrder.jrxml ada

                        fullPath = fileRpt.toString();
                    } // end if
                } // end for i
            } // end if
            // Ambil Direktori tempat file PurchaseOrder.jrxml berada

            String[] subRptDir = fullPath.split(reportName);
            reportDir = subRptDir[0];
            System.out.println("Report Directory at : " + reportDir +
reportName);
        } catch (Exception ex) {
        }
        // JOptionPane.showMessageDialog(this, reportDir + reportName);
        return reportDir + reportName;
    }

    private void formWindowClosed(java.awt.event.WindowEvent evt) { //GEN-
FIRST:event_formWindowClosed
    // TODO add your handling code here:
        show.setEnabled(true);

```

```

        show.toFront();
    } //GEN-LAST:event_formWindowClosed

private void jDateChooser1MouseClicked(java.awt.event.MouseEvent evt)
{ //GEN-FIRST:event_jDateChooser1MouseClicked
    // TODO add your handling code here:
} //GEN-LAST:event_jDateChooser1MouseClicked

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_jButton1ActionPerformed
    try {
        System.out.println(idproyek);
        System.out.println(idstandartampung);
        System.out.println(namasubpekerjaantampung);
        System.out.println(keterangansubpekerjaantampung);
        //      objModel4.updateTanggalmulai(idproyek, idstandartampung,
        namasubpekerjaantampung, keterangansubpekerjaantampung,
        jDateChooser3.getDate());
        //      objModel4.updateTanggalselesai(idproyek, idstandartampung,
        namasubpekerjaantampung, keterangansubpekerjaantampung,
        jDateChooser4.getDate());
        //      objModel4.inputpersenhari(idproyek, idstandartampung,
        namasubpekerjaantampung, keterangansubpekerjaantampung);
    } catch (SQLException ex) {
        Logger.getLogger(Ketergantungan.class.getName()).log(Level.SEVERE, null,
        ex);
    }

    //      try {
    //          System.out.println(idproyek);
    //          System.out.println(idstandar);
    //          System.out.println(namasubpekerjaan);
    //          System.out.println(keterangansubpekerjaan);
    //          System.out.println(data6);
    //          objModel4.inputDurasi(idproyek, idstandar, namasubpekerjaan,
    keterangansubpekerjaan, (Integer) jSpinner1.getValue());
    //      } catch (SQLException ex) {
    //          Logger.getLogger(Penjadwalan.class.getName()).log(Level.SEVERE,
    null, ex);
    //      }

    this.dispose();
    refreshTableSubPekerjaan(tabelsubpekerjaan, new int[]{105, 80, 80,
    80, 80});
    this.setVisible(false);
} //GEN-LAST:event_jButton1ActionPerformed

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_jButton2ActionPerformed
    Date startDate = jDateChooser3.getDate();
    Calendar cld = Calendar.getInstance();
    cld.setTime(startDate);
    //      cld.add(Calendar.DAY_OF_YEAR, (Integer) durasiSpin2.getValue());
    cld.add(Calendar.DAY_OF_YEAR, ((Integer) durasiSpin.getValue()-1);
    jDateChooser4.setDate(cld.getTime());
    try {
        System.out.println(idproyek);
        System.out.println(idstandartampung);
        System.out.println(namasubpekerjaantampung);
        System.out.println(keterangansubpekerjaantampung);
    }

```

```

        objModel4.inputDurasi(idproyek, idstandartampung,
        namasubpekerjaantampung, keteranganpekerjaantampung, (Integer)
        durasiSpin2.getValue());
        objModel4.updateTanggalmulai(idproyek, idstandartampung,
        namasubpekerjaantampung, keteranganpekerjaantampung,
        jDateChooser3.getDate());
    } catch (SQLException ex) {

        Logger.getLogger(Ketertanggung.class.getName()).log(Level.SEVERE, null,
        ex);
    }
}

} //GEN-LAST:event_jButton2ActionPerformed

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_jButton3ActionPerformed

    Date startDate = jDateChooser2.getDate();
    Calendar cld = Calendar.getInstance();
    cld.setTime(startDate);
    cld.add(Calendar.DAY_OF_YEAR, (Integer) durasiSpin1.getValue());
    jDateChooser3.setDate(cld.getTime());

} //GEN-LAST:event_jButton3ActionPerformed

public static void main(String args[]) {
    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {
            Ketertanggung dialog = new Ketertanggung(new
            javax.swing.JFrame(), true);
            dialog.addWindowListener(new
            java.awt.event.WindowAdapter() {

                public void windowClosing(java.awt.event.WindowEvent
            e) {

                System.exit(0);
            }
            });
            dialog.setVisible(true);
        }
    });
}

// Variables declaration - do not modify //GEN-BEGIN:variables
private javax.swing.JSpinner durasiSpin;
private javax.swing.JSpinner durasiSpin1;
private javax.swing.JSpinner durasiSpin2;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private com.toedter.calendar.JDateChooser jDateChooser1;
private com.toedter.calendar.JDateChooser jDateChooser2;
private com.toedter.calendar.JDateChooser jDateChooser3;
private com.toedter.calendar.JDateChooser jDateChooser4;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;

```

```

private javax.swing.JLabel jLabel8;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
private javax.swing.JPanel jPanel4;
private javax.swing.JScrollPane jScrollPane3;
private javax.swing.JScrollPane jScrollPane4;
private javax.swing.JLabel ketKeterangketergantunganlbl;
private javax.swing.JLabel ketKetergantunganlbl;
private javax.swing.JTextField ketSubpekerjaan;
private javax.swing.JTable tabelpekerjaan;
private javax.swing.JTable tabelsubpekerjaan;
// End of variables declaration//GEN-END:variables

private void refreshTablePekerjaan(javax.swing.JTable tb, int
lebar[]) {
    myModel = new javax.swing.table.DefaultTableModel(new
Object[][]{{},
        new String[]{"Pekerjaan"}}) {
        private static final long serialVersionUID = 1L;
        boolean[] canEdit = new boolean[]{false, false};

        public boolean isCellEditable(int rowIndex, int columnIndex)
        {
            return canEdit[columnIndex];
        }
    };
    tabelpekerjaan.setModel(myModel);
    tb.setAutoResizeMode(tb.AUTO_RESIZE_ALL_COLUMNS);
    int kolom = 1;
    for (int i = 0; i <
        kolom; i++) {
        javax.swing.table.TableColumn tbc =
    tb.getColumnModel().getColumn(i);
        tbc.setPreferredWidth(lebar[i]);
    }
    DefaultTableCellRenderer renderer = new
DefaultTableCellRenderer();
    renderer.setHorizontalAlignment(SwingConstants.RIGHT);

    // TableColumn tc = tabelpekerjaan.getColumnModel("Durasi");
    // tc.setCellRenderer(renderer);
    // tabelpekerjaan.updateUI();
}

private void refreshTableSubPekerjaan(javax.swing.JTable tb, int
lebar[]) {
    myModel = new javax.swing.table.DefaultTableModel(new
Object[][]{{},
        new String[]{"Sub Pekerjaan", "Tgl.Mulai", "Bobot",
"Durasi", "Keterangan", "Standar"}}) {
        private static final long serialVersionUID = 1L;
        boolean[] canEdit = new boolean[]{false, false, false, false,
false};

        public boolean isCellEditable(int rowIndex, int columnIndex)
        {
            return canEdit[columnIndex];
        }
    };
    tabelsubpekerjaan.setModel(myModel);

```

```

        tb.setAutoResizeMode(tb.AUTO_RESIZE_OFF);
        int kolom = 5;
        for (int i = 0; i < kolom; i++) {
            javax.swing.table.TableColumn tbc =
tb.getColumnModel().getColumn(i);
            tbc.setPreferredWidth(lebar[i]);
        }
        DefaultTableCellRenderer renderer = new
DefaultTableCellRenderer();
        renderer.setHorizontalAlignment(SwingConstants.RIGHT);

        TableColumn tc = tabelsubpekerjaan.getColumnModel("Tgl.Mulai");
        tc.setCellRenderer(renderer);
        TableColumn tc2 = tabelsubpekerjaan.getColumnModel("Bobot");
        tc2.setCellRenderer(renderer);
        TableColumn tc3 = tabelsubpekerjaan.getColumnModel("Durasi");
        tc3.setCellRenderer(renderer);
        tabelsubpekerjaan.updateUI();
    }

    private void bindtablepekerjaan() throws SQLException {
        ResultSet data =
objModel2.getDatahasilperhitunganpekerjaan(idproyek);
        int baris = 0;
        refreshTablePekerjaan(tabelpekerjaan, new int[]{189, 125});
        try {
            while (data.next()) {
                int a = data.getRow();
                myModel.setRowCount(a);
                data1 = data.getString("pekerjaan");
                tabelpekerjaan.setValueAt(data1, baris, 0);
                baris++;
            }
        } catch (Exception ex) {
            JOptionPane.showMessageDialog(null,
                "Error fungsi bindTable\n" + ex, "Error",
                JOptionPane.ERROR_MESSAGE);
        }
    }

    private void bindtablesubpekerjaan() throws SQLException {
        ResultSet data = objModel2.getDate(idproyek, namapekerjaan);
        int baris = 0;
        refreshTableSubPekerjaan(tabelsubpekerjaan, new int[]{230, 100,
100, 100, 100, 100});
        try {
            while (data.next()) {
                int b = data.getRow();
                myModel.setRowCount(b);
                data1 = data.getString("namasubpekerjaan");
                tabelsubpekerjaan.setValueAt(data1, baris, 0);
                data6 = data.getDate("tanggalmulai");
                tabelsubpekerjaan.setValueAt(data6, baris, 1);
                data3 = data.getString("totalsubpekerjaan");
                tabelsubpekerjaan.setValueAt(data3, baris, 2);
                data4 = data.getString("durasi");
                tabelsubpekerjaan.setValueAt(data4, baris, 3);
                data5 = data.getString("keterangan");
                tabelsubpekerjaan.setValueAt(data5, baris, 4);
                data7 = data.getString("standar");
                tabelsubpekerjaan.setValueAt(data7, baris, 5);
                baris++;
            }
        }
    }

```

```

    } catch (Exception ex) {
        JOptionPane.showMessageDialog(null,
            "Error fungsi bindTable\n" + ex, "Error",
            JOptionPane.ERROR_MESSAGE);
    }
}

public boolean Cek(String data) {
    int panjang = data.length();
    for (int i = 0; i < panjang; i++) {
        if (((data.charAt(i) >= 48 && data.charAt(i) <= 57) ||
            (data.charAt(i) >= 0 && data.charAt(i) <= 32)) && (!data.equals(""))) {
            return true;
        } else {
            return false;
        }
    }
    return true;
}
}

```



Form Bar-Chart

```
package bak2;

/* =====
 * JFreeChart : a free chart library for the Java(tm) platform
 * =====
 *
 * (C) Copyright 2000-2004, by Object Refinery Limited and Contributors.
 *
 * Project Info:  http://www.jfree.org/jfreechart/index.html
 *
 * This library is free software; you can redistribute it and/or modify
 * it under the terms
 *   of the GNU Lesser General Public License as published by the Free
 *   Software Foundation;
 *   either version 2.1 of the License, or (at your option) any later
 *   version.
 *
 * This library is distributed in the hope that it will be useful, but
 * WITHOUT ANY WARRANTY;
 * without even the implied warranty of MERCHANTABILITY or FITNESS FOR A
 * PARTICULAR PURPOSE.
 * See the GNU Lesser General Public License for more details.
 *
 * You should have received a copy of the GNU Lesser General Public
 * License along with this
 *   library; if not, write to the Free Software Foundation, Inc., 59
 *   Temple Place, Suite 330,
 *   Boston, MA 02111-1307, USA.
 *
 * [Java is a trademark or registered trademark of Sun Microsystems, Inc.
 *   in the United States and other countries.]
 *
 * -----
 * GanttDemo1.java
 * -----
 * (C) Copyright 2002-2004, by Object Refinery Limited.
 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):   -;
 *
 * $Id: GanttDemo1.java,v 1.12 2004/04/26 19:11:54 taqua Exp $
 *
 * Changes
 * -----
 * 06-Jun-2002 : Version 1 (DG);
 * 10-Oct-2002 : Modified to use DemoDatasetFactory (DG);
 * 10-Jan-2003 : Renamed GanttDemo --> GanttDemo1 (DG);
 * 16-Oct-2003 : Shifted dataset from DemoDatasetFactory to this class
 * (DG);
 *
 */
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Calendar;
import java.util.Date;

import javax.swing.JFrame;
import org.jfree.chart.ChartFactory;
```

```

import org.jfree.chart.ChartPanel;
import org.jfree.chart.JFreeChart;
import org.jfree.data.category.IntervalCategoryDataset;
import org.jfree.data.gantt.Task;
import org.jfree.data.gantt.TaskSeries;
import org.jfree.data.gantt.TaskSeriesCollection;
import org.jfree.ui.RefineryUtilities;

/**
 * A simple demonstration application showing how to create a Gantt
 * chart.
 * <P>
 * This demo is intended to show the conceptual approach rather than
 * being a polished
 * implementation.
 *
 */
public class BarchartViewer extends JFrame {

    /**
     * Creates a new demo.
     *
     * @param title the frame title.
     */
    private int idproyek;

    public BarchartViewer(final String title, int idproyek) {
        super(title);
        super.setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
        this.idproyek = idproyek;
        try {
            final IntervalCategoryDataset dataset = createDataset();
            final JFreeChart chart = createChart(dataset);
            // add the chart to a panel...
            final ChartPanel chartPanel = new ChartPanel(chart);
            chartPanel.setPreferredSize(new java.awt.Dimension(1100,
450));
            setContentPane(chartPanel);
        } catch (SQLException ex) {
            ex.printStackTrace();
        }
    }

    //
    ****
    ***
    // * JFREECHART DEVELOPER GUIDE
    *
    // * The JFreeChart Developer Guide, written by David Gilbert, is
    available *
    // * to purchase from Object Refinery Limited:
    *
    // *
    *
    // * http://www.object-refinery.com/jfreechart/guide.html
    *
    // *
    *
    // * Sales are used to provide funding for the JFreeChart project -
    please *

```

```

    // * support us so that we can continue developing free software.
    *
    //
    ****
    ***
    /**
     * Creates a sample dataset for a Gantt chart.
     *
     * @return The dataset.
     */
    public IntervalCategoryDataset createDataset() throws SQLException {
        String sql = "select tanggalmulai, durasi,
        namasubpekerjaan,keterangan,urut_subpekerjaan from trial where id_proyek
        = ? group by urut_subpekerjaan";
        Koneksi koneksi = new Koneksi();
        Connection conn = koneksi.getKoneksi();
        PreparedStatement preparedStatement = conn.prepareStatement(sql);
        preparedStatement.setInt(1, idproyek);
        ResultSet rs = preparedStatement.executeQuery();

        TaskSeries superSeries = new TaskSeries("Pekerjaan");
        while (rs.next()) {
            Date tanggalMulai = rs.getDate("tanggalmulai");
            Calendar cal = Calendar.getInstance();

            if (tanggalMulai == null) {
                tanggalMulai = new Date();
            }
            cal.setTime(tanggalMulai);
            cal.set(Calendar.DAY_OF_YEAR, cal.get(Calendar.DAY_OF_YEAR) +
rs.getInt("durasi"));
            Date tanggalSelesai = cal.getTime();
            Task t = new Task "[" + rs.getString("keterangan") + "]" +
rs.getString("namasubpekerjaan"), tanggalMulai, tanggalSelesai);
            superSeries.add(t);
        }
        final TaskSeriesCollection collection = new
TaskSeriesCollection();
        collection.add(superSeries);

        return collection;
    }
    /**
     * Utility method for creating <code>Date</code> objects.
     *
     * @param day the date.
     * @param month the month.
     * @param year the year.
     *
     * @return a date.
     */
    private static Date date(final int day, final int month, final int
year) {

        final Calendar calendar = Calendar.getInstance();
        calendar.set(year, month, day);
        final Date result = calendar.getTime();
        return result;
    }
}

```

```

/**
 * Creates a chart.
 *
 * @param dataset the dataset.
 *
 * @return The chart.
 */
private JFreeChart createChart(final IntervalCategoryDataset dataset)
{
    final JFreeChart chart = ChartFactory.createGanttChart(
        "",
        "", // domain axis label
        "", // range axis label
        dataset, // data
        false, // include legend
        true, // tooltips
        false // urls
    );
    //
    chart.getCategoryPlot().getDomainAxis().setMaxCategoryLabelWidthRatio(10.
    0f);
    return chart;
}

/**
 * Starting point for the demonstration application.
 *
 * @param args ignored.
 */
public static void main(final String[] args) {
    final BarchartViewer demo = new BarchartViewer("Gantt Chart Demo
1", 32);
    demo.pack();
    RefineryUtilities.centerFrameOnScreen(demo);
    demo.setVisible(true);
}
}

```

Form Kurva S

```
/* =====
 * JFreeChart : a free chart library for the Java(tm) platform
 * =====
 *
 * (C) Copyright 2000-2004, by Object Refinery Limited and Contributors.
 *
 * Project Info:  http://www.jfree.org/jfreechart/index.html
 *
 * This library is free software; you can redistribute it and/or modify
 it under the terms
 * of the GNU Lesser General Public License as published by the Free
 Software Foundation;
 * either version 2.1 of the License, or (at your option) any later
 version.
 *
 * This library is distributed in the hope that it will be useful, but
 WITHOUT ANY WARRANTY;
 * without even the implied warranty of MERCHANTABILITY or FITNESS FOR A
 PARTICULAR PURPOSE.
 * See the GNU Lesser General Public License for more details.
 *
 * You should have received a copy of the GNU Lesser General Public
 License along with this
 * library; if not, write to the Free Software Foundation, Inc., 59
 Temple Place, Suite 330,
 * Boston, MA 02111-1307, USA.
 *
 * [Java is a trademark or registered trademark of Sun Microsystems, Inc.
 * in the United States and other countries.]
 *
 * -----
 * TimeSeriesDemo10.java
 * -----
 * (C) Copyright 2003, 2004, by Object Refinery Limited and Contributors.
 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):   -;
 *
 * $Id: TimeSeriesDemo10.java,v 1.10 2004/04/26 19:12:03 taqua Exp $
 *
 * Changes
 * -----
 * 21-Feb-2003 : Version 1 (DG);
 *
 */
package org.demo;

import bak2.Koneksi;
import java.lang.Double;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Calendar;
import java.util.Date;
import java.util.HashMap;
import java.util.List;
import javax.swing.JFrame;
```

```

import org.jfree.chart.ChartFactory;
import org.jfree.chart.ChartPanel;
import org.jfree.chart.JFreeChart;
import org.jfree.data.time.Day;
import org.jfree.data.time.TimeSeries;
import org.jfree.data.time.TimeSeriesCollection;
import org.jfree.ui.RefineryUtilities;

/**
 * A demo showing a time series with per minute data.
 */
public class TimeSeriesDemo10 extends JFrame {

    /**
     * A demonstration application.
     * @param title the frame title.
     */
    public TimeSeriesDemo10(final String title, int idproyek) throws
    SQLException {

        super(title);
        Koneksi koneksi = new Koneksi();
        Connection conn = koneksi.getKoneksi();
        //      String sqlJumlah = "select
sum((bahan.harga*trial.volume*trial.koefisienbahan)+(tenaga.harga*trial.k
oefisientenaga*trial.volume)) as jumlah " +
//          "from bahan,tenaga,trial " +
//          "where (trial.idbahan=bahan.id_bahan and
trial.idtenaga=tenaga.id_tenaga) " +
//          "and ((trial.id_proyek=?))group by trial.id_proyek";
//
//      PreparedStatement preparedStatement =
conn.prepareStatement(sqlJumlah);
//      preparedStatement.setInt(1, idproyek);
//      ResultSet rs = preparedStatement.executeQuery();
//
//      double jumlah = 0;
//      if (rs.next()) {
//          jumlah = rs.getDouble("jumlah");
//      }
//
//      //42128900
//      String sqlPersen = "select
(((sum(bahan.harga*trial.volume*trial.koefisienbahan)) +" +
//      "(sum(tenaga.harga*trial.volume*trial.koefisientenaga)))/" + jumlah +
//      ")*100 as persentase,trial.tanggalmulai,trial.durasi,sum(trial.durasi) as
sumdur from trial " +
//          "inner join bahan on (bahan.id_bahan = trial.idbahan) "
+
//          "inner join tenaga on (trial.idtenaga =
tenaga.id_tenaga) " +
//          "where trial.id_proyek=? group by trial.tanggalmulai";
//      preparedStatement = conn.prepareStatement(sqlPersen);
//      preparedStatement.setInt(1, idproyek);
//      rs = preparedStatement.executeQuery();
//      final TimeSeries series = new TimeSeries("Per Minute Data",
Day.class);
//      List<DatePercentPair> dataSource = new
ArrayList<DatePercentPair>();

```

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        String sqlCariTanggal = "select min(tanggalmulai) as
tanggalMulai,max(tanggalselesai) as tanggalselesai " +
        " from abk.trial where id_proyek=? group by id_proyek";

        PreparedStatement pstate = conn.prepareStatement(sqlCariTanggal);
        pstate.setInt(1, idproyek);

        Date tanggalMulai = new Date();
        Date tanggalSelesai = new Date();

        ResultSet rs = pstate.executeQuery();

        while (rs.next()) {
            tanggalMulai = rs.getDate("tanggalMulai");
            tanggalSelesai = rs.getDate("tanggalselesai");
        }
        SimpleDateFormat sdf = new SimpleDateFormat("dd/MMMM/yyyy");
        System.out.println("Tanggalmulai " + sdf.format(tanggalMulai));
        System.out.println("Tanggalselesai " +
sdf.format(tanggalSelesai));
        Calendar cldMulai = Calendar.getInstance();
        cldMulai.setTime(tanggalMulai);

        Calendar cldSelesai = Calendar.getInstance();
        cldSelesai.setTime(tanggalSelesai);

        int selisihTahun = cldSelesai.get(Calendar.YEAR) -
cldMulai.get(Calendar.YEAR);

        int jumlahHari = ((365 * selisihTahun) +
cldSelesai.get(Calendar.DAY_OF_YEAR)) -
cldMulai.get(Calendar.DAY_OF_YEAR);

        System.out.println("Jumlah hari " + jumlahHari);
        //      String sqlGakEdan = "select sum(distinct persenhari) as jumlah
        from abk.trial " +
        //      " where id_proyek=? and tanggalMulai<= ? and
        tanggalselesai>=?";

        String sqlGakEdan = "SELECT keterangan, tanggalmulai, durasi,
tanggalselesai, persenhari FROM trial where id_proyek = ? " +
        " and tanggalMulai<= ? and tanggalselesai>= ?" +
        " group by urut_subpekerjaan";

        final TimeSeries series = new TimeSeries("Per Minute Data",
Day.class);
        List<DatePercentPair> dataSource = new
ArrayList<DatePercentPair>();
        double total = 0.0;
        DatePercentPair dpc = new DatePercentPair();
        dpc.setPercent(0);
        dpc.setTanggal(cldMulai.getTime());
        dataSource.add(dpc);
        for (int i = 0; i <= jumlahHari; i++) {

            Date cek = cldMulai.getTime();

            System.out.println(sdf.format(cek));

```

```

        pstate = conn.prepareStatement(sqlGakEdan);
        pstate.setInt(1, idproyek);
        pstate.setDate(2, new java.sql.Date(cek.getTime()));
        pstate.setDate(3, new java.sql.Date(cek.getTime()));

        DatePercentPair dpc2 = new DatePercentPair();

        rs = pstate.executeQuery();

        //      if (rs.next()) {
        //          double dbl = rs.getDouble("jumlah");
        //          total = total + dbl;
        //          System.out.println(" " + dbl + "--" + total);
        //      }
        double sumsem = 0.0;
        while (rs.next()) {
            double dbl = rs.getDouble("persenhari");
            sumsem = sumsem + dbl;
            System.out.println(" " + dbl + "--" + total);
        }
        total = total + sumsem;
        dpc2.setPercent(total);
        cldMulai.add(Calendar.DAY_OF_YEAR, 1);
        cek = cldMulai.getTime();
        dpc2.setTanggal(cek);
        dataSource.add(dpc2);

    }

    //
    //      int jumlahPerulangan = 0;
    //      while (rs.next()) {
    //          if (jumlahPerulangan == 0) {
    //              jumpersen = jumpersen + rs.getDouble("persentase");
    //              series.add(new Day(rs.getDate("tanggalmulai"), jumpersen);
    //          } else {
    //              jumpersen = jumpersen + rs.getDouble("persentase");
    //              Calendar cld = Calendar.getInstance();
    //              cld.setTime(rs.getDate("tanggalmulai"));
    //              cld.set(Calendar.DAY_OF_YEAR,
    //              cld.get(Calendar.DAY_OF_YEAR) + rs.getInt("durasi"));
    //              series.add(new Day(cld.getTime()), jumpersen);
    //          }
    //          jumlahPerulangan++;
    //      }

    for (DatePercentPair dd : dataSource) {
        series.addOrUpdate(new Day(dd.getTanggal()),
        dd.getPercent());
    }

    //      final TimeSeries series = new TimeSeries("Per Minute Data",
    Minute.class);
    //      final Hour hour = new Hour();
    //      series.add(new Minute(1, hour), 10.2);
    //      series.add(new Minute(3, hour), 17.3);
    //      series.add(new Minute(9, hour), 14.6);
    //      series.add(new Minute(11, hour), 11.9);
    //      series.add(new Minute(15, hour), 13.5);
    //      series.add(new Minute(19, hour), 10.9);

```

```

        final TimeSeriesCollection dataset = new
TimeSeriesCollection(series);
        final JFreeChart chart = ChartFactory.createTimeSeriesChart(
            "",
            "",
            "",
            dataset,
            false,
            true,
            false);
        final ChartPanel chartPanel = new ChartPanel(chart);
        chartPanel.setPreferredSize(new java.awt.Dimension(1100, 450));
        setContentPane(chartPanel);
    }

    public class DatePercentPair {
        private Date tanggal;
        private double percent;

        public double getPercent() {
            return percent;
        }

        public void setPercent(double percent) {
            this.percent = percent;
        }

        public Date getTanggal() {
            return tanggal;
        }

        public void setTanggal(Date tanggal) {
            this.tanggal = tanggal;
        }
    }
    //
    ****
    ***
    // * JFREECHART DEVELOPER GUIDE
    *
    // * The JFreeChart Developer Guide, written by David Gilbert, is
available *
    // * to purchase from Object Refinery Limited:
    *
    // *
    *
    // * http://www.object-refinery.com/jfreechart/guide.html
    *
    // *
    *
    // * Sales are used to provide funding for the JFreeChart project -
please *
    // * support us so that we can continue developing free software.
    *
    //
    ****
    ***

    /**
     * Starting point for the demonstration application.
     *

```

```
        * @param args ignored.
        */
        public static void main(final String[] args) {
            try {
                final TimeSeriesDemo10 demo = new TimeSeriesDemo10("Time
Series Demo 10", 32);
                demo.pack();
                RefineryUtilities.centerFrameOnScreen(demo);
                demo.setVisible(true);
            } catch (SQLException ex) {
                ex.printStackTrace();
            }
        }
    }
```

