

LAMPIRAN

1. Query Program untuk Data Collecting dengan menggunakan python

3.7 dengan tools cmd

```
python Exporter.py --querysearch "tugu jogja" --since 2015-09-10 --until 2015-09-12
```

2. Kode Program *Stopwords*

```
package com.uttesh.exude.stemming;

import com.uttesh.exude.ExudeData;
import com.uttesh.exude.exception.InvalidDataException;
import static com.uttesh.exude.stemming.Stemmer.c;
import static com.uttesh.exude.stemming.Stemmer.path;
import static com.uttesh.exude.stemming.Stemmer.url;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;

/**
 *
 * @author Andjar
 */
public class Stopwords {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) throws InvalidDataException {
        try {
            String inputData = "E:\\STOPWORDDATE.txt";

            File newTextFile = new File("E:\\STOPWORDDATE2.txt");

            FileWriter fw = new FileWriter(newTextFile);

            String output =
ExudeData.getInstance().filterStoppingsKeepDuplicates(inputData);

            fw.write(output+"\n");

            fw.close();

        } catch (IOException iox) {
```

```
//do stuff with exception  
iox.printStackTrace();  
}  
}
```

3. Stoplist Bahasa Indonesia

ada
adanya
adalah
adapun
agak
agaknya
agar
akan
akankah
akhirnya

dia
dialah
dini
diri
dirinya
terdiri
dong
dulu
enggak
enggaknya

makanya
makin
malah
malahan
mampu
mampukah
mana
manakala
manalagi
masih

semua
semuanya
sendiri
sendirinya
seolah
seperti
sepertinya
sering
seringnya
serta



aku	entah	masihkah	siapa
akulah	entahlah	semasih	siapakah
amat	terhadap	masing	siapapun
amatlah	terhadapnya	mau	disini
anda	hal	maupun	disinilah
andalah	hampir	semaunya	sini
antar	hanya	memang	sinilah
diantaranya	hanyalah	mereka	sesuatu
antara	harus	merekalah	sesuatunya
antaranya	haruslah	meski	suatu
diantara	harusnya	meskipun	sesudah
apa	seharusnya	semula	sesudahnya
apaan	hendak	mungkin	sudah
mengapa	hendaklah	mungkinkah	sudahkah
apabila	hendaknya	nah	sudahlah
apakah	hingga	namun	supaya
apalagi	sehingga	nanti	tadi
apatah	ia	nantinya	tadinya
atauh	ialah	nyaris	tak
ataupun	ibarat	oleh	tanpa
bagai	ingin	olehnya	setelah
bagaikan	inginkah	seorang	telah
sebagai	inginkan	seseorang	tentang
sebagaimana	ini	pada	tentu
sebagainya	inikah	padanya	tentulah
bagaimana	inilah	padahal	tentunya
bagaimanapun	itu	paling	tertentu
sebagaimana	itukah	sepansjang	seterusnya
bagaimanakah	itulah	pantas	tapi
bagi	jangan	sepantasnya	tetapi
bahkan	jangankan	sepantasnyalah	setiap
bawa	janganlah	para	tiap
bahwasanya	jika	pasti	setidaknya
sebaliknya	jikalau	pastilah	tidak
banyak	juga	per	tidakkah
sebanyak	justru	pernah	tidaklah
beberapa	kala	pula	toh
seberapa	kalau	pun	waduh
begini	kalaualah	merupakan	wah
beginian	kalaupun	rupanya	wahai
beginikah	kalian	serupa	sewaktu
beginilah	kami	saat	walau
sebegini	kamilah	saatnya	walaupun
begitu	kamu	sesaat	wong
begitukah	kamulah	saja	yaitu
beitulah	kan	sajalah	

begitupun	kapan	saling	yakni
sebegini	kapankah	bersama	yang
belum	kapanpun	sama	
belumlah	dikarenakan	sesama	
sebelum	karena	sambil	
sebelumnya	karenanya	sampai	
sebenarnya	ke	sana	
berapa	kecil	sangat	
berapakah	kemudian	sangatlah	
berapalah	kenapa	saya	
berapapun	kepada	sayalah	
betulkah	kepadanya	se	
sebetulnya	ketika	sebab	
biasa	seketika	sebabnya	
biasanya bila	khkususnya	sebuah	
bilakah	kini	tersebut	
bisa	kinilah	tersebutlah	
bisakah	kiranya	sedang	
sebisanya	sekiranya	sedangkan	
boleh	kita	sedikit	
bolehkah	kitalah	sedikitnya	
bolehlah	kok	segala	
buat bukan	lagi	segalanya	
bukankah	lagian	segera	
bukanlah	selagi	sesegera	
bukannya	lah	sejak	
cuma	lain	sejenak	
percuma	lainnya	sekali	
dahulu	melainkan	sekalian	
dalam dan	selaku	sekalipun	
dapat dari	lalu	sesekali	
daripada	melalui	sekaligus	
dekat	terlalu	sekarang	
demi	lama	sekarang	
demikian	lamanya	sekitar	
demikianlah	selama	sekitarnya	
sedemikian	selama	sela	
dengan	selamanya	selain	
depan	lebih	selalu	
di	terlebih	seluruh	
	bermacam	seluruhnya	
	macam	semakin	
	semacam	sementara	
	maka	sempat	

4. Kode Program N-Gram untuk Mencari *Corpus* dan *Keyword* Bukalapak

```
package n.gram;

import java.io.File;
import java.io.FileWriter;
import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.Paths;
import java.util.*;
import java.util.function.Function;
import java.util.stream.Collectors;
import static java.util.stream.Collectors.counting;
import java.util.stream.Stream;

/**
 *
 * @author andjar
 */

public class BagiKata {

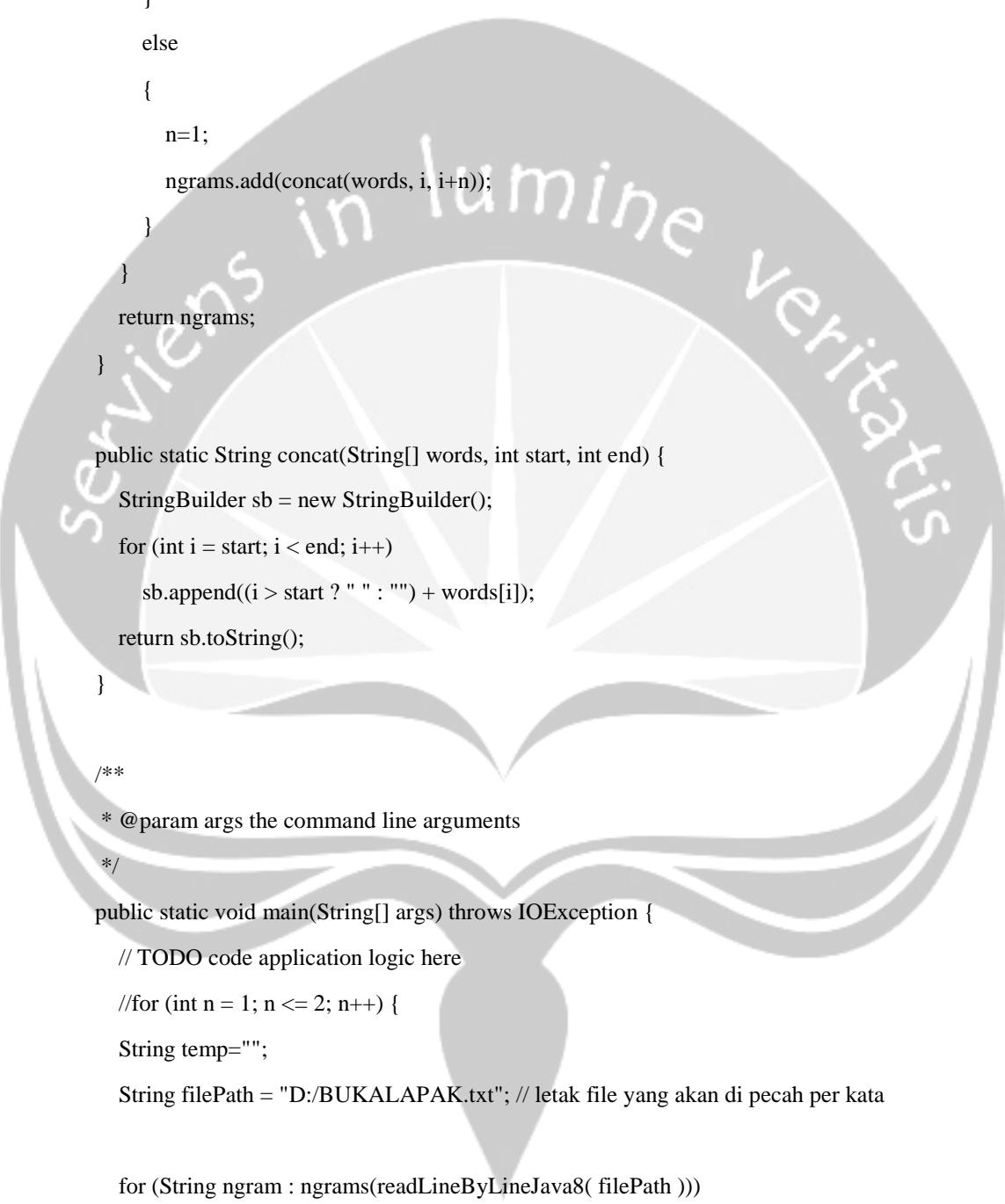
    public static List<String> ngrams( String str) {
        int n=1;

        List<String> ngrams = new ArrayList<String>();
        String[] words = str.split(" ");

        for (int i = 0; i < words.length - n + 1; i++)
        {

            if(words[i].equalsIgnoreCase("belum")||words[i].equalsIgnoreCase("bukan")||words[i].equalsIgnoreCase("tak")||words[i].equalsIgnoreCase("tanpa")||words[i].equalsIgnoreCase("tanpa")||words[i].equalsIgnoreCase("tidak")||words[i].equalsIgnoreCase("pantang")||words[i].equalsIgnoreCase("jangan")||words[i].equalsIgnoreCase("bukanlah")||words[i].equalsIgnoreCase("gak")||words[i].equalsIgnoreCase("enggak"))
            {

                n=2;
            }
        }
    }
}
```



```
ngrams.add(concat(words, i, i+n));
i++;
}
else
{
n=1;
ngrams.add(concat(words, i, i+n));
}
}
return ngrams;
}

public static String concat(String[] words, int start, int end) {
StringBuilder sb = new StringBuilder();
for (int i = start; i < end; i++)
sb.append((i > start ? " " : "") + words[i]);
return sb.toString();
}

/**
 * @param args the command line arguments
 */
public static void main(String[] args) throws IOException {
// TODO code application logic here
//for (int n = 1; n <= 2; n++) {
String temp="";
String filePath = "D:/BUKALAPAK.txt"; // letak file yang akan di pecah per kata

for (String ngram : ngrams(readLineByLineJava8( filePath )))
{
System.out.println(ngram); //menampilkan hasil output kata kata, setelah itu copy ke
notepad lalu lanjut ke HitungKata.java
```

```

    }

}

private static String readLineByLineJava8(String filePath)
{
    StringBuilder contentBuilder = new StringBuilder();
    try (Stream<String> stream = Files.lines(Paths.get(filePath), StandardCharsets.UTF_8))
    {
        stream.forEach(s -> contentBuilder.append(s).append("\n"));
    }
    catch (IOException e)
    {
        e.printStackTrace();
    }
    return contentBuilder.toString();
}

static void countWords(String word) throws IOException {
    Arrays.stream(word.split("[\\r\\n]+"))
        .collect(Collectors.groupingBy(Function.identity(), TreeMap::new,
            counting())).entrySet()
        .forEach(System.out::println);
}
}

```

5. Kode Program *Sentistrength* dengan Bahasa Python

```

# coding: utf-8
import re
from collections import OrderedDict
import numpy as np

class sentistrength:
    def __init__(self, config=dict()):
        self.negasi = [line.replace("\n", "") for line in open("negatingword.txt").read().splitlines()]
        self.tanya = [line.replace("\n", "") for line in open("questionword.txt").read().splitlines()]
        #create sentiment words dictionary
        self.sentiwords_txt = [line.replace("\n", "").split(":") for line in
open("sentiwords_id.txt").read().splitlines()]
        self.sentiwords_dict = OrderedDict()

```

```

for term in self.sentiwords_txt:
    self.sentiwords_dict[term[0]] = int(term[1])
#create emoticon dictionary
self.emoticon_txt = [line.replace('\n', '').split(' | ') for line in
open("emoticon_id.txt").read().splitlines()]
self.emoticon_dict = OrderedDict()
for term in self.emoticon_txt:
    self.emoticon_dict[term[0]] = int(term[1])
#create idioms dictionary
self.idioms_txt = [line.replace('\n', '').split(':') for line in
open("idioms_id.txt").read().splitlines()]
self.idioms_dict = OrderedDict()
for term in self.idioms_txt:
    self.idioms_dict[term[0]] = int(term[1])
#create boosterwords dictionary
self.boosterwords_txt = [line.replace('\n', '').split(':') for line in
open("boosterwords_id.txt").read().splitlines()]
self.boosterwords_dict = OrderedDict()
for term in self.boosterwords_txt:
    self.boosterwords_dict[term[0]] = int(term[1])
self.negative_conf = config["negation"]
self.booster_conf = config["booster"]
self.ungkapan_conf = config["ungkapan"]
self.consecutive_conf = config["consecutive"]
self.repeated_conf = config["repeated"]
self.emoticon_conf = config["emoticon"]
self.question_conf = config["question"]
self.exclamation_conf = config["exclamation"]
self.punctuation_conf = config["punctuation"]
self.mean_conf = False

def senti(self,term):
    try:
        return self.sentiwords_dict[term]
    except:
        return 0

def emosikon(self,term):
    try:
        return self.emoticon_dict[term]
    except:
        return 0

def ungkapan(self,term):
    try:
        return self.idioms_dict[term]
    except:
        return 0

def booster(self, term):
    try:
        return self.boosterwords_dict[term]
    except:
        return 0

```

```

def cek_negationword(self, prev_term, prev_term2):
    #jika kata sebelumnya (index-1) adalah kata negasi, negasikan nilai -+nya
    if prev_term in self.negasi or prev_term2+" "+prev_term in self.negasi:
        # print prev_term
        self.score = -abs(self.score) if self.score>0 else abs(self.score)

def cek_boosterword(self,term):
    booster_score = self.booster(term)
    if booster_score !=0 and self.score>0: self.score += booster_score
    if booster_score !=0 and self.score<0: self.score -= booster_score

def cek_consecutive_term(self, prev_term):
    if self.prev_score>0 and self.score >=3: self.score+=1
    if self.prev_score<0 and self.score <=-3: self.score-=1

def cek_ungkapan(self, bigram,trigram, i):
    bigram = ' '.join(bigram)
    trigram = ' '.join(trigram)
    ungkapan_score = self.ungkapan(bigram)
    if ungkapan_score==0:
        ungkapan_score = self.ungkapan(trigram)
    if ungkapan_score!=0:
        self.score = ungkapan_score
        self.prev_score = 0
        self.pre_max_pos[i-1] = 1
        self.pre_max_neg[i-1] = -1
        self.max_pos = self.pre_max_pos[i-2] #if len(self.pre_max_pos)>1 else 1
        self.max_neg = self.pre_max_neg[i-2] #if len(self.pre_max_neg)>1 else -1
        self.sentence_score[i-1] = re.sub(r'\[\d\]',",self.sentence_score[i-1])

def cek_repeated_punctuation(self, next_term):
    if re.search(r'!{2,}',next_term) and self.score >=3: self.score+=1
    if re.search(r'{2,}',next_term) and self.score <=-3: self.score-=1

def remove_extra_repeated_char(self, term):
    return re.sub(r'([A-Za-z])\1{2,}',r'\1',term)
def plural_to_singular(self, term):
    return re.sub(r'([A-Za-z]+)\-1', r'\1',term)
def classify(self):
    result = "neutral"
    try:
        if self.mean_conf:
            mean_p = np.mean(self.mean_pos)
            mean_n = np.mean(self.mean_neg)
            print mean_p, mean_n
            if mean_p > mean_n:
                result = "positive"
            elif mean_p < mean_n and not self.is_tanya:
                result = "negative"
            elif mean_p < mean_n and self.is_tanya:
                result = "neutral"
        else:
            if abs(self.sentences_max_pos) > abs(self.sentences_max_neg):
                result = "positive"
            elif abs(self.sentences_max_pos) < abs(self.sentences_max_neg):

```

```

        result = "negative"
    elif abs(self.sentences_max_pos) == abs(self.sentences_max_neg):
        result = "neutral"
    except:
        print "error ",self.sentences_max_pos, self.sentences_max_neg
    return result
def cek_neutral_term(self,terms,i):
    if terms[i-1] in self.neutral_term or terms[i+1] in self.neutral_term: self.score=1

def main(self,sentence):
    self.neutral_term = ['jika','kalau']
    sentences = sentence.split('.')
    self.sentences_max_neg = -1
    self.sentences_max_pos = 1
    self.sentences_score = []
    self.sentences_text = []
    for sentence in sentences:
        self.max_neg = -1
        self.max_pos = 1
        self.mean_neg = [1]
        self.mean_pos = [1]
        self.sentence_score = []
        terms = sentence.split()
        # terms = re.split(r'[\s,]',sentence)
        terms_length = len(terms)
        self.is_tanya = False
        self.sentence_text = ""
        # print self.max_pos, self.max_neg
        #SEMUA KALIMAT YANG MEMILIKI TANDA SERU MEMILIKI +ve minimal 2
        if self.exclamation_conf and re.search('!',sentence): self.max_pos = 2
        self.prev_score = 0
        self.pre_max_pos = []
        self.pre_max_neg = []
        for i,term in enumerate(terms):
            # repeated_term =
            is_extra_char = False
            plural = ""
            self.score = 0
            # if re.search(r'[A-Za-z]-.',term):
            # print term
            if re.search(r'([A-Za-z])\1{3,}',term):
                is_extra_char = True
                # repeated_term = term
                term = self.remove_extra_repeated_char(term)
            if re.search(r'([A-Za-z]+)-1',term):
                plural = term
                term = self.plural_to_singular(term)
            #GET SENTI SCORE#
            self.score = self.senti(term)
            # print "senti score",term, self.score

            #NEGATION HANDLER#
            if self.negation_conf and self.score !=0 and i>0:self.cek_negationword(terms[i-1],terms[i-2])
            # print "negation score",term, self.score

```

```

#BOOSTERWORD HANDLER#
if self.booster_conf and self.score !=0 and i>0 and i<=(terms_length-1):self.cek_boosterword(terms[i-1])
    if self.booster_conf and self.score !=0 and i>=0 and i<(terms_length-1):self.cek_boosterword(terms[i+1])
        # print "booster score",term, self.score

#IDIOM/UNGKAPAN HANDLER#
if self.ungkapan_conf and i>0 and i<=(terms_length-1):self.cek_ungkapan([terms[i-1],term],[terms[i-2],terms[i-1],term],i)
    # if self.ungkapan_conf and i>=0 and i<(terms_length-1):self.cek_ungkapan([term,terms[i+1]])
        # print "idiom score",term, self.score

#CONSECUTIVE SENTIMENT WORD#
if self.consecutive_conf and i>0 and i<=(terms_length-1) and self.score !=0:self.cek_consecutive_term(terms[i-1])
    # print "consecutive score",term, self.score

#+1 SENI SCORE IF REPEATED CHAR ON POSITIVE/NEGATIVE +2 IF NEUTRAL
TERM
if self.repeated_conf and is_extra_char==True and self.score>0: self.score+=1
if self.repeated_conf and is_extra_char==True and self.score<0: self.score-=1
if self.repeated_conf and is_extra_char==True and self.score==0: self.score=2
    # print "repeat char score", term, self.score
if self.punctuation_conf and i>=0 and i<(terms_length-1):
    self.cek_repeated_punctuation(terms[i+1])
        # CEK APAKAH TERDAPAT KATA TANYA
if self.question_conf and (term in self.tanya or re.search(r'\?',term)):self.is_tanya = True
    # CEK neutral term
if self.score!=0 and i>1 and i<(terms_length-2): self.cek_neutral_term(terms,i)
    # if self.score!=0 and i>0 and i<(terms_length-4): self.cek_neutral_term(terms,i)
if self.emoticon_conf and self.score==0: self.score = self.emosikon(term)

self.prev_score = self.score
if self.mean_conf and self.score>0: self.mean_pos.append(self.score)
if self.mean_conf and self.score<0: self.mean_neg.append(abs(self.score))
#GET MAX SCORE +ve/-ve
self.max_pos= self.score if self.score > self.max_pos else self.max_pos
self.max_neg= self.score if self.score < self.max_neg else self.max_neg
#insert score info current term
self.pre_max_pos.append(self.max_pos)
self.pre_max_neg.append(self.max_neg)
# print self.pre_max_pos, self.pre_max_neg
if plural !=":": term = plural
self.sentence_text += ' {}'.format(term)
if self.score != 0:term = "{} [{}].format(term, self.score)
self.sentence_score.append(term)

self.sentences_text.append(self.sentence_text)
self.sentences_score.append(" ".join(self.sentence_score))
if self.is_tanya:
    self.max_neg = -1

```

```

        self.sentences_max_pos = self.max_pos if self.max_pos > self.sentences_max_pos else
self.sentences_max_pos
        self.sentences_max_neg = self.max_neg if self.max_neg < self.sentences_max_neg else
self.sentences_max_neg
        # print self.sentences_max_pos, self.sentences_max_neg
        sentence_result = self.classify()
        # print self.sentences_text
        #return {"classified_text": ". ".join(self.sentences_score), "RESULT":
":self.sentences_max_pos+self.sentences_max_neg , "tweet_text":".
".join(self.sentences_text), "sentence_score":self.sentences_score, "max_positive":self.sentences_m
ax_pos, "max_negative":self.sentences_max_neg, "kelas":sentence_result}

# return {"RESULT : " : self.sentences_max_pos + self.sentences_max_neg,
#         "max_positive": self.sentences_max_pos,
#         "max_negative": self.sentences_max_neg,
#         "kelas": sentence_result}
        return {"text ": " ".join(self.sentences_score) , "sentimen": sentence_result}
    # return{sentence_result}
config = dict()
config["negation"] = True
config["booster"] = True
config["ungkapan"] = True
config["consecutive"] = True
config["repeated"] = True
config["emoticon"] = True
config["question"] = True
config["exclamation"] = True
config["punctuation"] = True
senti = sentistrength(config)

list1=['agnezmo22222 malas dan jelek sekali tetapi lintah darat :)', 'Maafkan aku Ham, aku
udah bener-bener gak bisa sama kamu, aku tuh udah terlanjur mencintai dia, bahkan lebih
dari cinta aku ke kamu, maaf', 'Aku benar-benar mencintaimu tapi tidak suka adik dingin
Anda'];
list2=[line.strip() for line in open("D:/2019.txt", 'r')]; #E:/00. SKRIPSIIIIIIIIIIIIIII
FIIXXXXXXXXXXX/program/DATA/novdesss1.txt
#print senti.main("agnezmo malas dan jelek sekali tetapi lintah darat :)")
#print senti.main("Maafkan aku Ham, aku udah bener-bener gak bisa sama kamu, aku tuh udah
terlanjur mencintai dia, bahkan lebih dari cinta aku ke kamu, maaf ")
#print senti.main("Aku benar-benar mencintaimu tapi tidak suka adik dingin Anda.")
for p in list2: print senti.main(p)

#print senti.main(list1)

```

6. Kode Program untuk Dimensi *Corporate Reputation* dengan Bahasa Python

```

# coding: utf-8
import re
from collections import OrderedDict
import numpy as np

class sentistrength:
    def __init__(self, config=dict()):

```

```

self.negasi = [line.replace("\n", "") for line in open("negatingword.txt").read().splitlines()]
self.tanya = [line.replace("\n", "") for line in open("questionword.txt").read().splitlines()]
#create sentiment words dictionary
self.sentiwords_txt = [line.replace("\n", "").split(":") for line in
open("sentiwords_id.txt").read().splitlines()]
self.sentiwords_dict = OrderedDict()
for term in self.sentiwords_txt:
    self.sentiwords_dict[term[0]] = int(term[1])
#create emoticon dictionary
self.emoticon_txt = [line.replace("\n", "").split(" | ") for line in
open("emoticon_id.txt").read().splitlines()]
self.emoticon_dict = OrderedDict()
for term in self.emoticon_txt:
    self.emoticon_dict[term[0]] = int(term[1])
#create idioms dictionary
self.idioms_txt = [line.replace("\n", "").split(":") for line in
open("idioms_id.txt").read().splitlines()]
self.idioms_dict = OrderedDict()
for term in self.idioms_txt:
    self.idioms_dict[term[0]] = int(term[1])
#create boosterwords dictionary
self.boosterwords_txt = [line.replace("\n", "").split(":") for line in
open("boosterwords_id.txt").read().splitlines()]
self.boosterwords_dict = OrderedDict()
for term in self.boosterwords_txt:
    self.boosterwords_dict[term[0]] = int(term[1])
self.negative_conf = config["negation"]
self.booster_conf = config["booster"]
self.ungkapan_conf = config["ungkapan"]
self.consecutive_conf = config["consecutive"]
self.repeated_conf = config["repeated"]
self.emoticon_conf = config["emoticon"]
self.question_conf = config["question"]
self.exclamation_conf = config["exclamation"]
self.punctuation_conf = config["punctuation"]
self.mean_conf = False

def senti(self,term):
    try:
        return self.sentiwords_dict[term]
    except:
        return 0

def emosikon(self,term):
    try:
        return self.emoticon_dict[term]
    except:
        return 0

def ungkapan(self,term):
    try:
        return self.idioms_dict[term]
    except:
        return 0

```

```

def booster(self, term):
    try:
        return self.boosterwords_dict[term]
    except:
        return 0

def cek_negationword(self, prev_term, prev_term2):
    #jika kata sebelumnya (index-1) adalah kata negasi, negasikan nilai -nya
    if prev_term in self.negasi or prev_term2+" "+prev_term in self.negasi:
        # print prev_term
        self.score = -abs(self.score) if self.score>0 else abs(self.score)

def cek_boosterword(self,term):
    booster_score = self.booster(term)
    if booster_score !=0 and self.score>0: self.score += booster_score
    if booster_score !=0 and self.score<0: self.score -= booster_score

def cek_consecutive_term(self, prev_term):
    if self.prev_score>0 and self.score >=3: self.score+=1
    if self.prev_score<0 and self.score <=-3: self.score-=1

def cek_ungkapan(self, bigram,trigram, i):
    bigram = ''.join(bigram)
    trigram = ''.join(trigram)
    ungkapan_score = self.ungkapan(bigram)
    if ungkapan_score==0:
        ungkapan_score = self.ungkapan(trigram)
    if ungkapan_score!=0:
        self.score = ungkapan_score
        self.prev_score = 0
        self.pre_max_pos[i-1] = 1
        self.pre_max_neg[i-1] = -1
        self.max_pos = self.pre_max_pos[i-2] #if len(self.pre_max_pos)>1 else 1
        self.max_neg = self.pre_max_neg[i-2] #if len(self.pre_max_neg)>1 else -1
        self.sentence_score[i-1] = re.sub(r'\[\d\]', "",self.sentence_score[i-1])

def cek_repeated_punctuation(self, next_term):
    if re.search(r'!\{2,\}',next_term) and self.score >=3: self.score+=1
    if re.search(r'!\{2,\}',next_term) and self.score <=3: self.score-=1

def remove_extra_repeated_char(self, term):
    return re.sub(r'([A-Za-z])\1{2,}',r'\1',term)
def plural_to_singular(self, term):
    return re.sub(r'([A-Za-z]+)\-\1', r'\1',term)
def classify(self):
    result = "neutral"
    try:
        if self.mean_conf:
            mean_p = np.mean(self.mean_pos)
            mean_n = np.mean(self.mean_neg)
            print mean_p, mean_n
            if mean_p > mean_n:
                result = "positive"
            elif mean_p < mean_n and not self.is_tanya:
                result = "negative"

```

```

    elif mean_p < mean_n and self.is_tanya:
        result = "neutral"
    else:
        if abs(self.sentences_max_pos) > abs(self.sentences_max_neg):
            result = "positive"
        elif abs(self.sentences_max_pos) < abs(self.sentences_max_neg):
            result = "negative"
        elif abs(self.sentences_max_pos) == abs(self.sentences_max_neg):
            result = "neutral"
    except:
        print "error ",self.sentences_max_pos, self.sentences_max_neg
    return result
def cek_neutral_term(self,terms,i):
    if terms[i-1] in self.neutral_term or terms[i+1] in self.neutral_term: self.score=1

def main(self,sentence):
    self.neutral_term = ['jika','kalau']
    sentences = sentence.split('.')
    self.sentences_max_neg = -1
    self.sentences_max_pos = 1
    self.sentences_score = []
    self.sentences_text = []
    for sentence in sentences:
        self.max_neg = -1
        self.max_pos = 1
        self.mean_neg = [1]
        self.mean_pos = [1]
        self.sentence_score=[]
        terms = sentence.split()
        # terms = re.split(r'[s,]',sentence)
        terms_length = len(terms)
        self.is_tanya = False
        self.sentence_text = ""
        # print self.max_pos, self.max_neg
        #SEMUA KALIMAT YANG MEMILIKI TANDA SERU MEMILIKI +ve minimal 2
        if self.exclamation_conf and re.search('!',sentence): self.max_pos = 2
        self.prev_score = 0
        self.pre_max_pos = []
        self.pre_max_neg = []
        for i,term in enumerate(terms):
            # repeated_term =
            is_extra_char = False
            plural = ""
            self.score = 0
            # if re.search(r'[A-Za-z]-.',term):
            # print term
            if re.search(r'([A-Za-z])\1{3,}',term):
                is_extra_char = True
                # repeated_term = term
                term = self.remove_extra_repeated_char(term)
            if re.search(r'([A-Za-z]+)-\1',term):
                plural = term
                term = self.plural_to_singular(term)
        #GET SENTI SCORE#
        self.score = self.senti(term)

```

```

# print "senti score",term, self.score

#NEGATION HANDLER#
if self.negation_conf and self.score !=0 and i>0:self.cek_negationword(terms[i-1],terms[i-2])
# print "negation score",term, self.score

#BOOSTERWORD HANDLER#
if self.booster_conf and self.score !=0 and i>0 and i<=(terms_length-1):self.cek_boosterword(terms[i-1])
if self.booster_conf and self.score !=0 and i>=0 and i<(terms_length-1):self.cek_boosterword(terms[i+1])
# print "booster score",term, self.score

#IDIOM/UNGKAPAN HANDLER#
if self.ungkapan_conf and i>0 and i<=(terms_length-1):self.cek_ungkapan([terms[i-1],term],[terms[i-2],terms[i-1],term],i)
# if self.ungkapan_conf and i>=0 and i<(terms_length-1):self.cek_ungkapan([term,terms[i+1]])
# print "idiom score",term, self.score

#CONSECUTIVE SENTIMENT WORD#
if self.consecutive_conf and i>0 and i<=(terms_length-1) and self.score !=0:self.cek_consecutive_term(terms[i-1])
# print "consecutive score",term, self.score

#+1 SENI SCORE IF REPEATED CHAR ON POSITIVE/NEGATIVE +2 IF NEUTRAL TERM
if self.repeated_conf and is_extra_char==True and self.score>0: self.score+=1
if self.repeated_conf and is_extra_char==True and self.score<0: self.score-=1
if self.repeated_conf and is_extra_char==True and self.score==0: self.score=2
# print "repeat char score", term, self.score
if self.punctuation_conf and i>=0 and i<(terms_length-1):
    self.cek_repeated_punctuation(terms[i+1])
    # CEK APAKAH TERDAPAT KATA TANYA
    if self.question_conf and (term in self.tanya or re.search(r'\?',term)):self.is_tanya = True
    # CEK neutral term
    if self.score!=0 and i>1 and i<(terms_length-2): self.cek_neutral_term(terms,i)
    # if self.score!=0 and i>0 and i<(terms_length-4): self.cek_neutral_term(terms,i)
    if self.emoticon_conf and self.score==0: self.score = self.emosikon(term)

    self.prev_score = self.score
    if self.mean_conf and self.score>0: self.mean_pos.append(self.score)
    if self.mean_conf and self.score<0: self.mean_neg.append(abs(self.score))
    #GET MAX SCORE +ve/-ve
    self.max_pos= self.score if self.score > self.max_pos else self.max_pos
    self.max_neg= self.score if self.score < self.max_neg else self.max_neg
    #insert score info current term
    self.pre_max_pos.append(self.max_pos)
    self.pre_max_neg.append(self.max_neg)
    # print self.pre_max_pos, self.pre_max_neg
    if plural !=": term = plural
    self.sentence_text += ' {} '.format(term)
    if self.score != 0:term = "{} [{}].format(term, self.score)

```

```

        self.sentence_score.append(term)

    self.sentences_text.append(self.sentence_text)
    self.sentences_score.append(" ".join(self.sentence_score))
    if self.is_tanya:
        self.max_neg = -1
    self.sentences_max_pos = self.max_pos if self.max_pos > self.sentences_max_pos else
self.sentences_max_pos
    self.sentences_max_neg = self.max_neg if self.max_neg < self.sentences_max_neg else
self.sentences_max_neg
        # print self.sentences_max_pos, self.sentences_max_neg
    sentence_result = self.classify()
    # print self.sentences_text
    #return {"classified_text": ". ".join(self.sentences_score), "RESULT":
":self.sentences_max_pos+self.sentences_max_neg , "tweet_text":".
".join(self.sentences_text), "sentence_score":self.sentences_score, "max_positive":self.sentences_m
ax_pos, "max_negative":self.sentences_max_neg, "kelas":sentence_result}

    # return {"RESULT : ": self.sentences_max_pos + self.sentences_max_neg,
    #         "max_positive": self.sentences_max_pos,
    #         "max_negative": self.sentences_max_neg,
    #         "kelas": sentence_result}
    return {"text ": " ".join(self.sentences_score) , }
    # return{sentence_result}
config = dict()
config["negation"] = False
config["booster"] = False
config["ungkapan"] = False
config["consecutive"] = False
config["repeated"] = False
config["emoticon"] = False
config["question"] = False
config["exclamation"] = False
config["punctuation"] = False
senti = sentistrength(config)

list1= ['agnezmo22222 malas dan jelek sekali tetapi lintah darat :)', 'Maafkan aku Ham, aku
udah bener-bener gak bisa sama kamu, aku tuh udah terlanjur mencintai dia, bahkan lebih
dari cinta aku ke kamu, maaf', 'Aku benar-benar mencintaimu tapi tidak suka adik dingin
Anda'];
list2=[line.strip() for line in open("D:/datacontoh.txt", 'r')]; #E:/00. SKRIPSIIIIIIIIIIIIIII
FIIXXXXXXXXXXXXXXX/program/DATA/novdesss1.txt
#print senti.main("agnezmo malas dan jelek sekali tetapi lintah darat :)")
#print senti.main("Maafkan aku Ham, aku udah bener-bener gak bisa sama kamu, aku tuh udah
terlanjur mencintai dia, bahkan lebih dari cinta aku ke kamu, maaf ")
#print senti.main("Aku benar-benar mencintaimu tapi tidak suka adik dingin Anda. ")
for p in list2: print senti.main(p)

#print senti.main(list1)

```

7. Query untuk Menghitung Jumlah Polaritas pada Dimensi Corporate Reputation dan Nilai Sentiment

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'positive' AND `Corporate` like '%[1]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'neutral' AND `Corporate` like '%[1]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'negative' AND `Corporate` like '%[1]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'positive' AND `Corporate` like '%[2]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'neutral' AND `Corporate` like '%[2]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'negative' AND `Corporate` like '%[2]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'positive' AND `Corporate` like '%[3]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'neutral' AND `Corporate` like '%[3]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'negative' AND `Corporate` like '%[3]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'positive' AND `Corporate` like '%[4]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'neutral' AND `Corporate` like '%[4]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'negative' AND `Corporate` like '%[4]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'positive' AND `Corporate` like '%[5]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'neutral' AND `Corporate` like '%[5]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'negative' AND `Corporate` like '%[5]%'
```

```
SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'positive' AND `Corporate` like '%[6]%'
```

SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'neutral' AND `Corporate` like '%[6]%'

SELECT count(*) 'total' FROM `skripsi` WHERE `SENTIMEN` = 'negative' AND `Corporate` like '%[6]%'

8. Hasil Kamus Asosiasi *Corpus Sentiment dengan Dimensi Corporate Reputation*

kata	kode corporate	nilai sentimen	KODE + KATA
310 amanah	5	amanah :4	amanah :5
311 sombang	5	sombong :-4	sombong :5
312 etika	5	etika :4	etika :5
313 maafkan	5	maafkan :4	maafkan :5
314 kreatif	5	kreatif:4	kreatif:5
315 integritas	6	integritas:4	integritas:6
316 karakter	6	karakter:4	karakter:6
317 kelakuan	6	kelakuan:-3	kelakuan:6
318 kepribadian	6	kepribadian:4	kepribadian:6
319 lagak	6	lagak:-3	lagak:6
320 perbuatan	6	perbuatan:-4	perbuatan:6
321 sepak terjang	6	sepak terjang:4	sepak terjang:6
322 sifat	6	sifat:4	sifat:6
323 sikap	6	sikap:4	sikap:6
324 telatah	6	telatah:1	telatah:6
325 temperamen	6	temperamen :-4	temperamen :6
326 baik	6	baik :4	baik :6
327 tindak-tanduk	6	tingkah laku:-3	tingkah laku:6
328 tingkah laku	6	tingkah laku:2	tingkah laku:6
329 ulah	6	ulah:-3	ulah:6
330 watak	6	watak:-2	watak:6

9. Contoh Data dari Status Tweet

username	date	retwe	favo	text	geo	mentions	hashtags	id	permalink
latieffebrian	#####	39	50	# UNINSTALLBUKALAPAK # UNINSTALLBUKALAPAK # UNINSTAL @	#####	#####	#####	1.10E+18	https://twitter
benkkurniawan bu	#####	2	1	bikin haztag aja # uninstallbukalapak bukaemazbukalapak kwkwkw	#	#	#	1.10E+18	https://twitter
kebondanas achma	#####	2	0	# UninstallBukalapak ; blum pernah trending sih...		#	#	1.10E+18	https://twitter
gorila_bengong1	#####	0	0	# uninstallbukalapak			#	1.10E+18	https://twitter
mardikaaris1923	#####	0	0	# Uninstallbukalapak			#	1.10E+18	https://twitter
aditiamaruli kemal	#####	7	5	saya ga rispek lagi. # uninstallbukalapak			#	1.10E+18	https://twitter
khupcom	#####	4	2	# UNINSTALLBUKALAPAK Saatnya pake # TOPED # TOKOPEDIA	#####	#####	#####	1.10E+18	https://twitter
Lizalisakusuma SJW	#####	0	0	# UNINSTALLBUKALAPAK		#	#	1.10E+18	https://twitter
khilafvck achmadza	#####	5	4	# uninstallbukalapak		#	#	1.10E+18	https://twitter
Lizalisakusuma yus	#####	24	62	udah langsung # UNINSTALLBUKALAPAK			#	1.10E+18	https://twitter
limajam123 achmadza	#####	7	5	Padahal udah promo ke temen? Nunggu barnagku sampai # uninstallbukalapak			#	1.10E+18	https://twitter
VersiDeni kemalar	#####	2	1	Ikutan # uninstallbukalapak			#	1.10E+18	https://twitter
LeZtairy	#####	6	4	# uninstallbukalapak # boikotbukalapak			##	1.10E+18	https://twitter
WahonoSulistio ac	#####	0	0	# uninstallBukaLapak			#	1.10E+18	https://twitter
AloysiusAS	#####	3	3	Yang koar-koar # UninstallTraveloka sama # UninstallBukalapak gaada beda	##		##	1.10E+18	https://twitter
F4R1SYOUS	#####	5	10	# BoikotBukalapak # UninstallBukalapak https://www.facebook.com/10000	##		##	1.10E+18	https://twitter
pakde_lukman ach	#####	23	116	Ga ada terimakasihnya, kemarin sudah dibantu pak @ jokowi p @		#	#	1.10E+18	https://twitter
FebriAndhika84 ac	#####	102	562	Sudah 3 bulan saya sering belanja di BL dari yang lain. Kalo CEO nya kaya gir	##		##	1.10E+18	https://twitter
rockybrown007	#####	0	0	# uninstallbukalapak			#	1.10E+18	https://twitter
rasjogja	#####	30	14	Sudahkah kalian UNINSTALL @ bukalapak hari ini? yg sudah uni @		#	#	1.10E+18	https://twitter