```
import tweepy
from textblob import TextBlob
import pandas as pd
import numpy as np
import re,string
import matplotlib.pyplot as plt
plt.style.use('fivethirtyeight')

from nltk.corpus import stopwords
from wordcloud import WordCloud,STOPWORDS

import csv
```

Untuk Bahan-Bahan sebelum kita melakukan sentiment

```
consumer_key = 'eeGHzMoEm1yBnvBVocoJvz5OE'
consumer_secret = 'VKhulg9uEhAlLis3NtuUbmW8MiYV79uVbTY6gauq3Wi3CysNqi'
access_token = '567007241-QaWjCIGIhDzR8RjGTw4tlPFyQpLcUss7MHxm5Gid'
access_token_secret = '3HeMjSvLbLWQ7wlstu4oelULBsiORUwY6i5HAYMtJCZxJ'

auth = tweepy.OAuthHandler(consumer_key, consumer_secret)
auth.set_access_token(access_token, access_token_secret)
api = tweepy.API(auth, wait_on_rate_limit=True)
```

Authentication terhadap twitter developer

```
csvFile = open('myrep.csv','a', encoding='utf-8')
csvWriter = csv.writer(csvFile)
for tweet in tweepy.Cursor(api.search, q= "MyRepublic",count=2000,
                           lang='id').items(2000):
    print(tweet.text)
    csvWriter.writerow([tweet.text])

     @tanyainrl tim myrepublic
     @termanich /. Pake wifi myrepublic
     RT @myrepublicnz: We have been made aware of a survey purporting to be from MyRepubli
     @myrepublicnz Which I am not going to do. So since that post on the 30th this shit is
     @pveyes @imrenagi bro, should put biznet, myrepublic, and other too as a comparison.
     We have been made aware of a survey purporting to be from MyRepublic. This scam offer
     We have been made aware of a survey purporting to be from MyRepublic. This scam offer
     @seb0ongie pake myrepublic
     @Myrepublic out in Melbourne. Anyone else?
     @JesterGFX Hi Jester, thanks for contacting MyRepublic! We are very sorry to hear abo
     fuck yes i'm back with myrepublic
     @LKSMDR @infomalang Thank you mbak mya, btw Myrepublic ama biznet mending mana?
     @starkjeon Uhhhhh maybe not myrepublic :/ I have heard some not very good feedback ab
     @minsongwolnim LOL HAHA omg i feel your bro's pain. XD I was trying to switch my hous
     Looking to do research on SIM Only with No Contract and New Signup?
     https://t.co/hgnTc7Bt57
     2021 Edition 13 is rele… https://t.co/iNxbZEmZts
     RT @HIREMAIDEA: Some MyRepublic broadband users face connectivity issues for more tha
     Myrepublic network really problematic asf.
```

```
MyRepublic broadband outage hits some users https://t.co/y3Hu4tM3Gw
MyRepublic broadband outage hits some users https://t.co/Rb04Wg9PhT
still thinking if i should stream later or not.

this whole debacle by #myrepublic kinda zapped a bit of my energy. https://t.co/G3uhr
firstmedia / myrepublic?
the internet connection by #myrepublic is finally stabilized. well for me at least. b
Myrepublic is down. Nice
thanks a lot MyRepublic for shutting off my internet for 45 mins on a public holidays

I WAS IN A RANKED GAME YOU FUCKS
No Internet... But at least MyRepublic informed us of the downtime before hand.
RT @BusinessTimes: Some MyRepublic broadband users face connectivity issues for over
Some MyRepublic broadband users face connectivity issues for over 24 hours https://t
Some MyRepublic broadband users face connectivity issues for more than 24 hours http
Some MyRepublic broadband users face connectivity issues for more than 24 hours http
Some MyRepublic broadband users face connectivity issues for more than 24 hours http
oh yeah. hello 2021. i forgotten about you in the midst of my disappointment with myr
damn amazing. Myrepublic still down. from 7+am till now, new day 12:55am. 😵😵😵😵
@amir_sabir Im using MyRepublic wifi too but mine has been okay the whole day though
bunch of liars this Myrepublic. claim internet issue has been reolved on their facebo
Myrepublic acting up on the last day of the year. gee. 🥴
Thanks to Myrepublic I won't be able to watch Dynamite live today. 😵
WiFi is acting like a bitch early morning. C'mon MyRepublic. Not on the last day of t
@StevenKupenga Hi there, thanks for contacting MyRepublic! We are sorry to hear about
You know what they say: hindsight is 2020.
2021 must embody foresight and forward thinking then ;)

Bring it on 20… https://t.co/T7VlvXU9En
Myrepublic sudah hadir di sini
Summarecon Serpong - Cluster Goldfinch
```
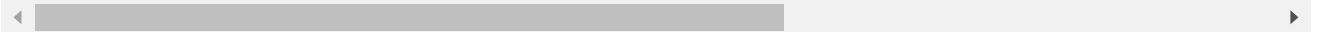
Membuat file csv yg isinya ialah search Myrepublic yg kita cari

```
df = pd.read_csv("myrep.csv", header=None)
df
```

	0
0	Yuk akhir tahun baru nikmatin diskon yang mena...

Membaca Header File csv

| 2 | Myrepublic sudah hadir di sini\nApartment Seno |

```python
def praproses(teks):
    teks = re.sub(r'http\S+','',teks)
    teks = hapus_tanda(teks)
    teks = re.sub(r'#([^\s]+)', r'\1', teks) #hapus #tagger
    teks = re.sub('@[A-Za-z0-9]+', '',teks)  #hapus @
    teks = re.sub(r':([^\s]+)', r'\1', teks) #hapus #tagger
    teks = re.sub('RT[\s]+', '',teks)#hapus RT
    teks = re.sub('https?:\/\/\S+', '',teks)#hapus hyperlink
    teks = re.sub(r'\w*\d\w*', '',teks).strip()#hapus angka dan angka yang berada dalam st
    teks = hapus_katadouble(teks)#hapus repetisi karakter
    teks = teks.lower() #ubah jadi lower case
#     teks = to_kbbi(teks)
    return teks


def hapus_tanda(teks):
    tanda_baca = set(string.punctuation)
    tanda_baca.update(['…'])
    teks = ''.join(ch for ch in teks if ch not in tanda_baca)
    return teks


def hapus_katadouble(s):
    #look for 2 or more repetitions of character and replace with the character itself
    pattern = re.compile(r"(.)\1{1,}", re.DOTALL)
    return pattern.sub(r"\1\1", s)


def kbbi(kata): # penyeragaman kata berdasarkan kbbi
  #kbba = [kamus.strip('\n').strip('\r') for kamus in open('kamus\\kbba.txt')]
  kamus_kata = [kamus.strip('\n').strip('\r') for kamus in open('kbba.txt')]
  #ubah list menjadi dictionary
  dic = {}
  for i in kamus_kata:
    (key, val) = i.split('\t')
    dic[str(key)] = val
  #kbbi cocokan
  final_string = ' '.join(str(dic.get(word, word)) for word in kata).split()
  return final_string


def to_kbbi(teks):
    tek = teks.split()
    tek = kbbi(tek)
    return tek


#Removing the stopwords from text
def remove_stopwords(text):
    final_text = []
    for i in text.split():
        if i.strip().lower() not in stop_w:
            final_text.append(i.strip())
```

```
        return " ".join(final_text)

    #Removing the noisy text
    def cleanText(text):
        text = remove_stopwords(text)
        text = praproses(text)
        return text



    # Load stopword Bahasa Indonesia
    stopword_id = pd.read_csv('stopword_id.csv', sep='\t', header=None)
    stopword_id.columns = ['word']
    stop_w = stopword_id['word'].to_list() #diubah ke list
    # print('ada' in stop_w) # test periksa kata di dalam list stop_w

    # def cleanText(teks):
    #     teks = re.sub('@[A-Za-z0-9]+', '',teks)  #hapus @
    #     teks = re.sub(r'#([^\s]+)', r'\1', teks) #hapus #tagger
    #     teks = re.sub('RT[\s]+', '',teks)#hapus RT
    #     teks = re.sub('https?:\/\/\S+', '',teks)#hapus hyperlink
    #     teks = teks.lower() #ubah jadi lower case
    #     teks = re.sub(r"[-()\"#/@;:<>{}=~|.?,]", "", teks)
    #     import string
    #     killpunctuation = str.maketrans('', '', string.punctuation)
    #     return teks

    #Apply function on review column
    df[0] = df[0].apply(cleanText)

    df
```

	0
0	yuk nikmatin diskon menarik myrepublic area se...
1	myrepublic hadir apartment spring hill kemayoran
2	myrepublic hadir apartment senopati suites
3	myrepublic hadir apartment puri kemayoran
4	myrepublic hadir apartment mediterania gajah mada
...	...
486	nonton netflix bermasalah myrepublic jawabannya
487	jejonathanedgar sebagus myrepublic
488	mncplayid taun sangatt memuaskan yaa❤❤ enaknya...
489	wicaksonosty alhamdulillah ganti myrepublic in...
490	yg make myrepublic gaak dm pliss

491 rows × 1 columns

Melakukan Cleaning text agar banyak kata tidak penting yang dihilangkan

```python
def getSubjectivity(text):
    return TextBlob(text).sentiment.subjectivity

def getPolarity(text):
    return TextBlob(text).sentiment.polarity


df['Polarity'] = df[0].apply(getPolarity)
df['Subjectivity'] = df[0].apply(getSubjectivity)

df
```

	0	Polarity	Subjectivity
0	yuk nikmatin diskon menarik myrepublic area se...	0.0	0.0
1	myrepublic hadir apartment spring hill kemayoran	0.0	0.0
2	myrepublic hadir apartment senopati suites	0.0	0.0
3	myrepublic hadir apartment puri kemayoran	0.0	0.0
4	myrepublic hadir apartment mediterania gajah mada	0.0	0.0
...	...	...	...
486	nonton netflix bermasalah myrepublic jawabannya	0.0	0.0
487	jejonathanedgar sebagus myrepublic	0.0	0.0
488	mncplayid taun sangatt memuaskan yaa❤️❤️ enaknya...	0.0	0.0
489	wicaksonosty alhamdulillah ganti myrepublic in...	0.0	0.0
490	yg make myrepublic gaak dm pliss	0.0	0.0

491 rows × 3 columns

menentukan subjek

```python
allWords =' '.join([twts for twts in df[0]])
wc = WordCloud(width = 500 , height = 300 , random_state=10, max_font_size=110).generate(a
plt.imshow(wc , interpolation = 'bilinear')
plt.axis('off')
plt.show()
```

memunculkan banyak kata yang sering muncul dalah file


```
#untuk menambahkan sentimen positif, negatif / netral dari polarity yg sudah dihitung
def getAnalysisSentiment(score):
    if score < 0:
        return 'Negative'
    elif score == 0:
        return 'Neutral'
    else:
        return 'Positive'



df['Analysis'] = df['Polarity'].apply(getAnalysisSentiment)

df
```

	0	Polarity	Subjectivity	Analysis
0	yuk nikmatin diskon menarik myrepublic area se...	0.0	0.0	Neutral
1	myrepublic hadir apartment spring hill kemayoran	0.0	0.0	Neutral
2	myrepublic hadir apartment senopati suites	0.0	0.0	Neutral
3	myrepublic hadir apartment puri kemayoran	0.0	0.0	Neutral
4	myrepublic hadir apartment mediterania gajah mada	0.0	0.0	Neutral
...	...	...	...	...
486	nonton netflix bermasalah myrepublic jawabannya	0.0	0.0	Neutral
487	jejonathanedgar sebagus myrepublic	0.0	0.0	Neutral
488	mncplayid taun sangatt memuaskan yaa♥♥ enaknya...	0.0	0.0	Neutral
489	wicaksonosty alhamdulillah ganti myrepublic in...	0.0	0.0	Neutral
490	yg make myrepublic gaak dm pliss	0.0	0.0	Neutral

491 rows × 4 columns

Menentukan Komen negatif dan positif

```
plt.figure(figsize=(8,6))
for i in range(0, df.shape[0]):
    plt.scatter(df["Polarity"][i], df["Subjectivity"][i], color="Blue")

plt.title('Sentiment Analysis')
plt.xlabel('Polarity')
plt.ylabel('Subjectivity')
plt.show()
```
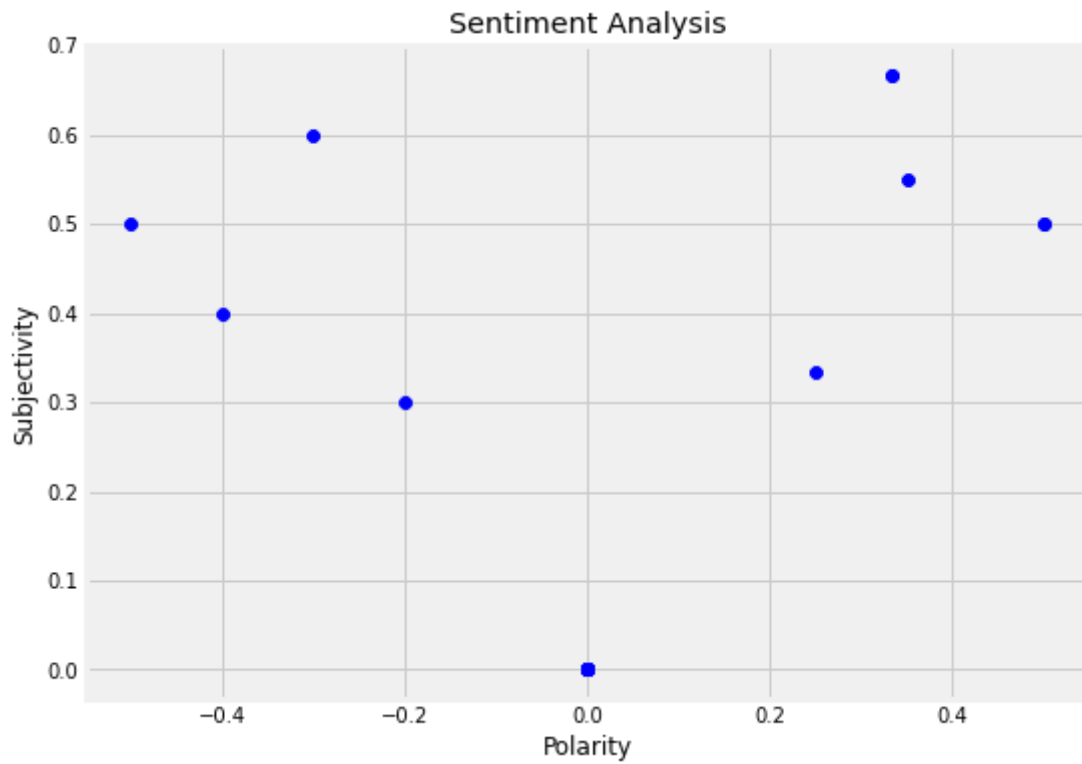
Sentiment analysis dan membuat grafik

```
df['Analysis'].value_counts()
```

```
Neutral     471
Positive     12
Negative      8
Name: Analysis, dtype: int64
```
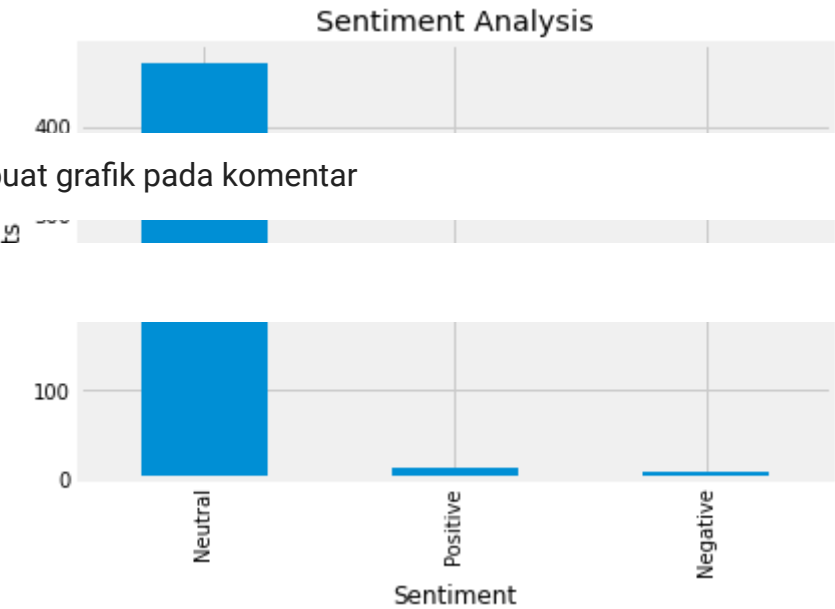
Menghitung Berapa keseluruhan komentar yang masuk ke dalam positif negatif serta netral

```
plt.title('Sentiment Analysis')
plt.xlabel('Sentiment')
plt.ylabel('Counts')
df['Analysis'].value_counts().plot(kind ='bar')
plt.show()
```

Sentiment Analysis

Membuat grafik pada komentar