### Get Twitter Credentential

- create app, and environment in twitter developer account
- get credentials and save in a file

```
import credential

!pip3 install oauth2

C→ Requirement already satisfied: oauth2 in /usr/local/lib/python3.6/dist-packages (1 Requirement already satisfied: httplib2 in /usr/local/lib/python3.6/dist-packages

import oauth2 as oauth import json import re

#import credentials
# credential can be stored as config file, or in a database, or in environemt variable CONSUMER_API_KEY = credential.consumer_key
API_SECRET_KEY = credential.consumer_secret
ACCESS_TOKEN = credential.access_token
ACCESS_TOKEN_SECRET= credential.access_token_secret
```

# Authentication

- Twitter supports OAuth 1.0a, Auth 2.0 Bearer Token, Basic authentication
- In this example Auth 2.0 is used. <a href="https://developer.twitter.com/en/docs/basics/authenticatio">https://developer.twitter.com/en/docs/basics/authenticatio</a>

```
#create Oauth2 Client
consumer = oauth.Consumer(CONSUMER_API_KEY, API_SECRET_KEY)
access_token = oauth.Token(ACCESS_TOKEN, ACCESS_TOKEN_SECRET)
client = oauth.Client(consumer, access token)
```

```
sheet = wb.add_sheet('tweets_for_{\}'.format(hashtag))

row = 1
sheet.write(0,0, "Tweets")
sheet.write(0,1, "Sentiment_Type")
for data in sentiment_result:
   print(data)
   sheet.write(row, 0, data[0])
   sheet.write(row, 1, data[1])
   row = row+1

wb.save('tweets.xls')
```

```
return tweets list
def clean_tweets(tweets_list):
  cleaned list = []
  for tweet in tweets list:
    clean_tweet = re.sub("(RT @\w+)|(@\w+)|(https:\/\/t.co\/\w+)|([^a-zA-Z0-9\s\.\!%,])
    cleaned_list.append(clean_tweet)
  return cleaned list
# Get Tweets Sentiment
def get_sentiment(text):
  try:
    blob = TextBlob(text, analyzer=NaiveBayesAnalyzer())
    if blob.sentiment.p_pos >= blob.sentiment.p neg:
        return 'Positive'
    else:
        return 'Negative'
  except:
    print("exception occured")
    return ""
#Save workbook
def save_workbook(sentiment_result, sheet_name='result'):
  wb = Workbook()
  sheet = wb.add_sheet(sheet_name)
  row = 1
  sheet.write(0,0, "Tweets")
  sheet.write(0,1, "Sentiment_Type")
  for data in sentiment_result:
    print(data)
    sheet.write(row, 0, data[0])
    sheet.write(row, 1, data[1])
    row = row+1
  wb.save('tweets.xls')
if __name__ == "__main__":
  client=OauthClient()
  popular tweets= client.get tweets(result type="popular")
  recent_tweets= client.get_tweets(result_type="recent")
  tweets_list = popular_tweets + recent_tweets
  cleaned list = clean tweets(tweets list)
  sentiment_result = [(tweet, get_sentiment(tweet)) for tweet in cleaned_list]
  save_workbook(sentiment_result)
```

• with standared developer license twitter allow only 100 results in response.(Premium subscription)

```
#prepare query
query = '%23atamnirbharbharat'
count = 100
lang = "en"
result_type="mixed"
tweet_mode = "extended"
search_endpoint = "https://api.twitter.com/1.1/search/tweets.json?q={}&result_type={}&c
#execute query
response, data = client.request(search_endpoint)
print(data)
 □→ b'{"statuses":[{"created_at":"Mon Jun 08 11:04:17 +0000 2020","id":126994835834227
#get tweets from result
tweets = json.loads(data)
tweets_list = []
for tweet in tweets['statuses']:
   tweets_list.append(tweet['full_text'])
    print(tweet['full_text'])
 С→
```

In this difficult time, PM @narendramodi still enjoys the overwhelming support of

|@PMOIndia, @nsitharaman @minmsme #COVID19 #AtamnirbharBharat|

### https://t.co/csvpxPHNP7

RT @sumeetbhasin: Slowly and steadily nearing completion of all works at factory. #SamajikSamarasta #Atamnirbharbharat

Protection of workers rights and safety

via NaMo App <a href="https://t.co/5JPkWfHgD5">https://t.co/5JPkWfHgD5</a>

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No words  $\square$ 

#Narendermodi #ABPnews #TimesofIndia #hindustanibhau #BJPJanSamvad #Kejriwal #aama RT @vmlsanna9: We don't believe in freebies Sir, 1.3 billion Indians strongly beli RT @vmlsanna9: We don't believe in freebies Sir, 1.3 billion Indians strongly beli @PTI\_News Increased tax on Indian good ( what ever it may be ) and govt scheme of One Swadeshi Movement was started in 1905 for our National Independence... IN☑

Now it's time to start it again for our Economic Independence... And to save our e

#swadeshikranti

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#BoycottMadeInChina

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Further, if you genuinely want to help then do release Indian Citizen Kulbhushan J @BloombergQuint It's good at this tough time...I will make the import expensive an Shame on you

Mr @RobertDowneyJr

We will never BEG

World fighting with Coronavirus

& Now you're Supporting Chinese Products....

Follow Follow #AtamNirbharBharat <a href="https://t.co/B2mMXQInOZ">https://t.co/B2mMXQInOZ</a>

For the luxurious home decor 1800-121-100-027 Toll-Free for appointments #luxurysofa #smartfurnituredealers #furniturestore #homefurniture #italiansofa #le It is time to make India atma nirbhar, become vocal for local: PM Modi #AtamnirbharBharat <a href="https://t.co/MDilVYnpHZ">https://t.co/MDilVYnpHZ</a>

RT @authindia: "Spinning and weaving should be regarded as the necessary part of a #Atamnirbharb...

@azaz\_86 @TSBBCare @TataSky @tataskynews @TataCompanies @ndtv @aajtak @HMOIndia M @myntra please consider Avg height of Indian women and not go by international sta

RT @authindia: "Spinning and weaving should be regarded as the necessary part of a #Atamnirbharb...

Slogans shifting from India to Bharat by @narendramodi @makeinindia @startupindia @contrarianEPS Only going nifty long looking at Dow is real atamnirbhar...:) For

#### #atamnirbharbharat

Nitish Kumar reveals his big election promise for upcoming Bihar polls <a href="https://t.c">https://t.c</a>

#atamnirbharbharat

Received on whatsapp but true

#IndiaFightsCorona

#IndiaFightsCoronavirus

#atamnirbharbharat <a href="https://t.co/GdcSFHQXeN">https://t.co/GdcSFHQXeN</a>

#Ourgreatpm\_modiji, our nation proud of you and we all with you,

#atamnirbharbharat

#atamnirbharbano <a href="https://t.co/cI4ahrRQ@v">https://t.co/cI4ahrRQ@v</a>

RT @KishanK54586354: India deploys main battle tanks closer to Chinese border-MBT #Chinese #ChinaIndiaFaceoff #chinaindiab...

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RT @KishanK54586354: India deploys main battle tanks closer to Chinese border-MBT #Chinese #ChinaIndiaFaceoff #chinaindiab...

India deploys main battle tanks closer to Chinese border-MBT T72M1 ,MBT T90 .

#Chinese #ChinaIndiaFaceoff #chinaindiaborder #BoycottChineseProducts #ChineseViru RT @DivyaInExile: I ♥ you Amul (@Amul\_Coop )

Fruit & amp; Nut Chocolate

Milk

Cheese

Ice Cream

Ghee

Dahi

Fresh Cream

Paneer

Butter

Butter Milk...

@dhruv\_rathee Dnt spread fake news 😅 😅 ... we are under control, every thir @PMOIndia @narendramodi Well said, but quality should not be compromised.#atamnirbh RT @authindia: "Spinning and weaving should be regarded as the necessary part of a #Atamnirbharb...

RT @authindia: "Spinning and weaving should be regarded as the necessary part of a #Atamnirbharb...

RT @authindia: "Spinning and weaving should be regarded as the necessary part of a #Atamnirbharb...

How you will make #Atamnirbharbharat □

#Modi #NarendraModi #India #IndiaFightsCorona <a href="https://t.co/dyUJqolQgT">https://t.co/dyUJqolQgT</a> @JhaSanjay Good soon you along with other congi will be seen there only

And remember " #Atamnirbharbharat " banana hai koi naya kaam karna lekin bheekh ma @ImranKhanPTI You should think before this twit that ,this is #Atamnirbharbharat J RT @authindia: "Spinning and weaving should be regarded as the necessary part of a #Atamnirbharb...

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Boycott Chinese products and made our INDIA self reliant

#Atamnirbharbharat
#BoycottChineseProduct

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☞ Your skin demands for a special care. So, give a sheer care of natural ingredie

- → Roop Mantra brings a vibrant range of facial kits for all skin types.

.

#Atamnirbharbharat <a href="https://t.co/D1t0km09Fw">https://t.co/D1t0km09Fw</a>

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"Spinning and weaving should be regarded as the necessary part of any national edu #Atamnirbharat

#handicraft #VocalForLocal

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One year old tractor

See condition

"Acamilet bilar bil

Prayed in every way for the last six months, but no one listened to mahindra <a href="https://example.com/

#Opportunities4Youth

#atamnirbharbharat

#### via https://t.co/IJXWrRTLeE

The patience with which the Prime Minister of India handled the situation. With th Really Praiseworthy!

#atamnirbharbharat

#IndiafightCorona

### via MyNt https://t.co/ihhPT0eZPm

RT @eu\_indo: @avigyanSingh18 @AFP @ecb @IMFNews @UNCTAD @MoodysAnalytics @RBI @NIT Lesson from covid-19

- 1. Life is short
- 2. Job are temporary
- 3. health is wealth
- 4. Always save money
- 5. We need god to survive

#coronavirus

#atamnirbharbharat

RT @eu\_indo: @avigyanSingh18 @AFP @ecb @IMFNews @UNCTAD @MoodysAnalytics @RBI @NIT @ndtv These people don't have food, shelter even clothes as seen in this picture. India's PM Modi addressing Indian Chamber of Commerce #ICC Very impressive & DepMoIndia @narendramodi Indians doest know there capability.. agar indians apni sh #atamnirbharbharat

This should have been initiated long time back.

Better late then never.

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RT @amansharmagsp07: 5 Innocent Mathmaticians are sent to meet Albert Einstein By RT @Officeof\_IMS: #Atamnirbharbharat #atamnirbhardoctors #IMS2020 Only Physicians/

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. #AtamNirbharBharat #आत्मनिर्भरभारत #MakeInIndia #BuyIndianSellIndian С→

▼ get recent tweets

RT AtheSudhirMohan: AS PM of India said to build a #Atamnirbharbharat We are work

# workaround solution, use premium licnesed apps to get more tweets and apply filters.

result\_type="recent"

search\_endpoint = "https://api.twitter.com/1.1/search/tweets.json?q={}&result\_type={}&c

extended\_response, extended\_data = client.request(search\_endpoint)

#extended list

extended\_tweets = json.loads(extended\_data)

extended\_tweets\_list = []

for tweet in extended\_tweets['statuses']:

extended\_tweets\_list.append(tweet['full\_text'])

print(tweet['full\_text'])

```
#productandservices
     #IndianProduct
    #MadeInIndia
    #goodmorning
    #IndianEntrepreneurs
    #viralIndia
    #innovation
    #ShopLocal
    #vocalforlocal https://t.co/CmQejZOtc3
    @nhpcltd @MinOfPower @OfficeOfRKSingh @nhpcltd is among front liner for developmen
    Day#3
    List out one non-Indian brand or halal certified product you have purchased in las
    Need others to help provide good alternative of the same so that we don't purchase
     "An initate by BJYM Udhampur."
    BJYM Udhampur with a great initate manufacturing "Self Made Face Shields" and dist
    #AtamNirbharBharat #MakeInIndia
    @DrJitendraSingh @poonam_mahajan @BJYM @RavinderBJPJK @BJP4JnK @IArundev @BJYMinJK
    Today, every section of the country, every citizen is being provided the facility
    Your government should be assured for you, be confident!
    #Opportunities4Youth
    #atamnirbharbharat https://t.co/717COrfX95
    RT @krishnaartsvns: Support our country by #goingvocalforlocal support all local b
    #KrishnaArts...
    Support our country by #goingvocalforlocal support all local businesses out there!
    #KrishnaArts #localbusiness #localforvocal #vocalforlocal #localbusiness
    #AtamNirbharBharat #LocalBrand <a href="https://t.co/qpvKoImVyJ">https://t.co/qpvKoImVyJ</a>
    Today, every section of the country, every citizen is being provided the facility
    Your government should be assured for you, be confident!
    #Opportunities4Youth
    #atamnirbharbharat https://t.co/hv0ke8bHKJ
    Today, every section of the country, every citizen is being provided the facility
    Your government should be assured for you, be confident !
    #Opportunities4Youth
    #atamnirbharbharat
    via M https://t.co/HNL9prdm39
    Today, every section of the country, every citizen is being provided the facility
    Your government should be assured for you, be confident!
    #Opportunities4Youth
     #atamnirbharbharat
#undersatnding response:
print(response)
 via MyNt <a href="https://t.co/0JhYlyCxnV">https://t.co/0JhYlyCxnV</a>
print(data)

    □→ b'{"statuses":[{"created_at":"Mon Jun 08 11:04:17 +0000 2020","id":126994835834227

     NI WUN/0340407. SWAUESHI IS LHE UHIY SUIULIUH #ALAHHIII UHAFUHAFAL
```

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Protection of workers rights and safety
via NaMo App <a href="https://t.co/5JPkWfHgD5">https://t.co/5JPkWfHgD5</a>
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No words 
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Now it's time to start it again for our Economic Independence... And to save our e

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#swadeshikranti
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@azaz\_86 @TSBBCare @TataSky @tataskynews @TataCompanies @ndtv @aajtak @HMOIndia M @myntra please consider Avg height of Indian women and not go by international sta Slogans shifting from India to Bharat by @narendramodi @makeinindia @startupindia @contrarianEPS Only going nifty long looking at Dow is real atamnirbhar...:) For

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#Ourgreatpm\_modiji, our nation proud of you and we all with you,
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RT @KishanK54586354: India deploys main battle tanks closer to Chinese border-MBT #Chinese #ChinaIndiaFaceoff #chinaindiab...

India deploys main battle tanks closer to Chinese border-MBT T72M1 ,MBT T90 .
#Chinese #ChinaIndiaFaceoff #chinaindiaborder #BoycottChineseProducts #ChineseViru
RT @DivyaInExile: I ♥ you Amul (@Amul Coop )

Fruit & Nut Chocolate

Milk

Cheese

Ice Cream

Ghee

Dahi

Fresh Cream

Paneer

Butter

Butter Milk...

<code>@dhruv\_rathee Dnt spread fake news a a a a a a.. we are under control, every thir <code>@PMOIndia @narendramodi Well said, but quality should not be compromised.#atamnirbh How you will make #Atamnirbharbharat</code></code>

#Modi #NarendraModi #India #IndiaFightsCorona <a href="https://t.co/dyUJqolQgT">https://t.co/dyUJqolQgT</a> @JhaSanjay Good soon you along with other congi will be seen there only

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- → Roop Mantra brings a vibrant range of facial kits for all skin types.
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.

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@timesofindia @narendramodi Where are the trains that were designed for the beds a
@TractorMahindra #Harkissanatamnibhar #deshkelaal #Atamnirbharbharat

One year old tractor

See condition

Prayed in every way for the last six months, but no one listened to mahindra <a href="https://example.com/

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The patience with which the Prime Minister of India handled the situation. With th Really Praiseworthy! #atamnirbharbharat

#acamini Dilai Dilai at

#IndiafightCorona

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- 1. Life is short
- 2. Job are temporary

LC33011 11011 COVER E2

- 3. health is wealth
- 4. Always save money
- 5. We need god to survive

#coronavirus

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Better late then never.

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#atamnirbharbharat We Build Better Products.! Other Countries.

Then We Can Do Something.

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#आत्मनिर्भरभारत

#MakeInIndia

#BuyIndianSellIndian

#productandservices

#IndianProduct

#MadeInIndia

#goodmorning

#IndianEntrepreneurs

#viralIndia

#innovation

#ShopLocal

#vocalforlocal https://t.co/CmQejZOtc3

@nhpcltd @MinOfPower @OfficeOfRKSingh @nhpcltd is among front liner for developmen Day#3

List out one non-Indian brand or halal certified product you have purchased in las

Need others to help provide good alternative of the same so that we don't purchase "An initate by BJYM Udhampur."

BJYM Udhampur with a great initate manufacturing "Self Made Face Shields" and dist

#AtamNirbharBharat #MakeInIndia

@DrJitendraSingh @poonam\_mahajan @BJYM @RavinderBJPJK @BJP4JnK @IArundev @BJYMinJK Today, every section of the country, every citizen is being provided the facility Your government should be assured for you, be confident!

#Opportunities4Youth

#atamnirbharbharat https://t.co/717CQrfX95

RT @krishnaartsvns: Support our country by #goingvocalforlocal support all local b

#KrishnaArts...

Support our country by #goingvocalforlocal support all local businesses out there!

#KrishnaArts #localbusiness #localforvocal #vocalforlocal #localbusiness #AtamNirbharBharat #LocalBrand <a href="https://t.co/qpvKoImVyJ">https://t.co/qpvKoImVyJ</a>

Today, every section of the country, every citizen is being provided the facility

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Workbook_twitter_task.ipynb - Colaboratory
     Your government should be assured for you, be confident!
     #Opportunities4Youth
     #atamnirbharbharat <a href="https://t.co/hv0ke8bHKJ">https://t.co/hv0ke8bHKJ</a>
     Today, every section of the country, every citizen is being provided the facility
     Your government should be assured for you, be confident!
     #Opportunities4Youth
     #atamnirbharbharat
     via M https://t.co/HNL9prdm39
     Today, every section of the country, every citizen is being provided the facility
     Your government should be assured for you, be confident!
     #Opportunities4Youth
     #atamnirbharbharat
     via M https://t.co/jRj4nfMxDE
     The patience with which the Prime Minister of India handled the situation. With th
     Really Praiseworthy!
     #atamnirbharbharat
     #IndiafightCorona
     via MyNt https://t.co/OJhYlyCxnV
     RT @warrior34811802: There is huge compromise on Make In India , and #AtmanirbharB
     @GurukulParents @PMOIndia @DrRPNishank @drdineshbjp @HRDMinistry @Minister Edu @WH
     #Atamnirbharbharat khud padho khud padhao
     TEDBF: At $71 million flyaway costs, TEDBF It will be Cheaper then Rafale M and F-
     RT @GK78546407: Swadeshi is the only solution #atamnirbharbharat <a href="https://t.co/MT9q">https://t.co/MT9q</a>
     RT @GK78546407: Swadeshi is the only solution #atamnirbharbharat
     RT @GK78546407: Swadeshi is the only solution #atamnirbharbharat
     Swadeshi is the only solution #atamnirbharbharat https://t.co/MT9qXB3rDI
     RT @ImPrince_T: AS PM of India said to build a #Atamnirbharat. We are working
     RT @theSudhirMohan: AS PM of India said to build a #Atamnirbharbharat. We are work
     #atamnirbharbharat
     #nochina
     Join this slogan maximum to maximum and promote to indian product and make India s
     RT @consultosian: Customers duty on bambo import by agarbati manufacturer is incre
     #atamnirbharbharat 20 lakh crore package. https://t.co/zgqc4Z5eZb
     IT professionals crowd the job street <a href="https://t.co/5xmRt73hlv">https://t.co/5xmRt73hlv</a> via @economictimes
     #JobSeekersWednesday #Jobs #IT_company #informationtechnology #organisations #Rest
     Gig coders to become a mainstream phenomenon in Indian IT <a href="https://t.co/H5R2eAAT5R">https://t.co/H5R2eAAT5R</a>
     #CodersTeach #IndianIT #Mainstream #techelita #Services #gigwork #post_pandemic #t
     @TEAMCAIT @praveendel @BCBHARTIA @sumitagarwal 82 @narendramodi @PiyushGoyal @Amit
     For all the millennials wondering what people meant by saying "Licence Raj"
tweets list = tweets list + extended tweets list
     \pi \cup V \perp D \perp J \perp \Pi \cup \Delta \cup A
print(len(tweets_list))
print(tweets_list)
 [→ 200
     ['In this difficult time, PM @narendramodi still enjoys the overwhelming support o
     There is a lot more coming on your way 14/
```

# Clean tweets for sentiment Analysis

remove retweets user names, mentioned user, links, and special charachters except punctuati

```
#आत्मानभरभारत

cleaned_list = []

for tweet in tweets_list:
    clean_tweet = re.sub("(RT @\w+)|(@\w+)|(https:\/\/t.co\/\w+)|([^a-zA-Z0-9\s\.\!%,])"
    cleaned_list.append(clean_tweet)

"""

print(cleaned_list)
```

RT @Wivekrailavaram. @ahmedahadmirror All that MLA and MD do is make money for the

□→ ment guarantee.\n.\nAtamNirbharBharat\n\nMakeInIndia\nBuyIndianSellIndian\nproducta

# Sentiment Analysis Python

- 1. Option 1: Pretrained Model Provided by cloud provider like, AWS, GCP, IBM
  - sampel code below(not executed) requires aws credential to be loaded.
  - see reference:
     <a href="https://boto3.amazonaws.com/v1/documentation/api/latest/reference/services/compment">https://boto3.amazonaws.com/v1/documentation/api/latest/reference/services/compment</a>
- 2. Option 2: TextBlob API provided by Python Community(see reference: https://textblob.readthedocs.io/en/dev/advanced\_usage.html#sentiment-analyzers)

```
# Using AWS Comprehend
#import boto3
# Configure AWS credentials
# AWS_ACCESS_KEY =
# AWS_SECRET_KEY =
#comprehend = boto3.client(service_name='comprehend', region_name='ap-south-1', aws_acc
#sentimentData = comprehend.detect_sentiment(Text=comments, LanguageCode='en')
```

# ▼ TextBlob

- The textblob.sentiments module contains two sentiment analysis implementations, PatternA NaiveBayesAnalyzer (an NLTK classifier trained on a movie reviews corpus).
- Linguistic Data Source:(reference) <a href="http://www.nltk.org/nltk\_data/">http://www.nltk.org/nltk\_data/</a>
- TextBlob's Default linguistic module: textblob.download\_corpora
  - o ref: https://textblob.readthedocs.io/en/dev/install.html

```
! python -m textblob.download_corpora

☐→
```

```
[nltk data] Downloading package brown to /root/nltk data...
     [nltk data]
                  Package brown is already up-to-date!
     [nltk data] Downloading package punkt to /root/nltk data...
     [nltk_data]
                  Package punkt is already up-to-date!
     [nltk_data] Downloading package wordnet to /root/nltk_data...
     [nltk_data]
                  Package wordnet is already up-to-date!
     [nltk data] Downloading package averaged perceptron tagger to
     [nltk_data]
                     /root/nltk_data...
     [nltk data]
                  Package averaged_perceptron_tagger is already up-to-
                       date!
     [nltk_data]
     [nltk_data] Downloading package conll2000 to /root/nltk_data...
     [nltk data] Package conll2000 is already un-to-date!
# TextBlob Test
from textblob import TextBlob
from textblob.sentiments import NaiveBayesAnalyzer
blob = TextBlob("I love this library", analyzer=NaiveBayesAnalyzer())
blob.sentiment
# Get Tweets Sentiment
def get_sentiment(text):
    blob = TextBlob(text, analyzer=NaiveBayesAnalyzer())
    if blob.sentiment.p_pos >= blob.sentiment.p_neg:
        return 'Positive'
    else:
        return 'Negative'
  except:
    print("exception occured")
    return ""
sentiment result = [(tweet, get sentiment(tweet)) for tweet in cleaned list]
print(sentiment_result)

    □ [('In this difficult time, PM still enjoys the overwhelming support of people and
```

# Export Result to Excel

- liberary user: xlwt use to generate spreadsheet files compatible with Microsoft Excel version
- ref link <a href="https://pypi.org/project/xlwt/">https://pypi.org/project/xlwt/</a>

```
import xlwt
                                               from xlwt import Workbook
                                               wb = Workbook()
                                               hashtag = "atamnirbharbharat"
https://colab.research.google.com/drive/1LBJ0eSGqIRCBBhEjmb8xcs41xmbYqLtc\#scrollTo=5G_KyQiEZLMM\&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&printMode=truescrollTo=5G_KyQiEZLMM&prin
```

('In this difficult time, PM still enjoys the overwhelming support of people and (' Slowly and steadily nearing completion of all works at factory. will commence ('SamajikSamarasta Atamnirbharbharat\nProtection of workers rights and safety\nvia ' Slowly and steadily nearing completion of all works at factory. will commence ('No words \nNarendermodi ABPnews TimesofIndia hindustanibhau BJPJanSamvad Kejriwa We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni Increased tax on Indian good what ever it may be and govt scheme of Atamnirbh ('One Swadeshi Movement was started in 1905 for our National Independence... \n\nN ('Today the trust with which the people of India are supporting each other is comm ('Slowly and steadily nearing completion of all works at factory. will commence t (' We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni ' We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni (' We at Techelita deliver rich DataAnalytics Analytics to Help you incorporate th ('We at Techelita deliver rich DataAnalytics Analytics to Help you incorporate tha (' Slowly and steadily nearing completion of all works at factory. will commence ('Slowly and steadily nearing completion of all works at factory. will commence t We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni ('First strong step towards Atamnirbharbharat ', 'Positive') We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni (' We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni ('We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamnir Its good at this tough time...I will make the import expensive and help the exp ('Shame on you \nMr \nWorld fighting with Coronavirus\namp Now youre Supporting C ('For the luxurious home decor 1800121100027 TollFree for appointments\nluxurysofa ('It is time to make India atma nirbhar, become vocal for local PM Modi\nAtamnirbh Spinning and weaving should be regarded as the necessary part of any national e M still waiting for visit of the concern person. All are just zipped mou please consider Avg height of Indian women and not go by international standard (' Spinning and weaving should be regarded as the necessary part of any national e ('Slogans shifting from India to Bharat by StandupIndia atamnirbharbharat', ' (' Only going nifty long looking at Dow is real atamnirbhar... For our TV channel 'Nitish Kumar reveals his big election promise for upcoming Bihar polls \n\natam ('Received on whatsapp but true\nIndiaFightsCorona \nIndiaFightsCoronavirus \natam ('Ourgreatpmmodiji, our nation proud of you and we all with you, \natamnirbharbhar India deploys main battle tanks closer to Chinese borderMBT T72M1 ,MBT T90 .\nC India deploys main battle tanks closer to Chinese borderMBT T72M1 ,MBT T90 .\nC (' India deploys main battle tanks closer to Chinese borderMBT T72M1 ,MBT T90 .\nC ('India deploys main battle tanks closer to Chinese borderMBT T72M1 ,MBT T90 .\nCh I you Amul \nFruit amp Nut Chocolate \nMilk\nCheese\nIce Cream\nGhee\nDahi\nF Dnt spread fake news .. we are under control, every thing open now.. we r free Well said, but quality should not be compromised.atamnirbharabharat', 'Negative' (' Spinning and weaving should be regarded as the necessary part of any national e Spinning and weaving should be regarded as the necessary part of any national e (' Spinning and weaving should be regarded as the necessary part of any national e ('How you will make Atamnirbharbharat \n\nModi NarendraModi India IndiaFightsCoron Good soon you along with other congi will be seen there only \n\nAnd remember You should think before this twit that ,this is Atamnirbharbharat Jo (' Spinning and weaving should be regarded as the necessary part of any national e (' Spinning and weaving should be regarded as the necessary part of any national e ('Boycott Chinese products and made our INDIA self reliant\n\n Atamnirbharbharat \ (' Spinning and weaving should be regarded as the necessary part of any national e (' Your skin demands for a special care. So, give a sheer care of natural ingredie (' Spinning and weaving should be regarded as the necessary part of any national e Spinning and weaving should be regarded as the necessary part of any national ed Where are the trains that were designed for the beds and medical equipments Harkissanatamnibhar deshkelaal Atamnirbharbharat \nOne year old tractor\nSee co

```
(' Mr Talibani Puppet PM needs it very badly as no money is left with him for adv
('Today, every section of the country, every citizen is being provided the facilit
('The patience with which the Prime Minister of India handled the situation. With
               NewsAlert Now 100%', 'Positive')
('Lesson from covid19\n1. Life is short\n2. Job are temporary\n3. health is wealth
               NewsAlert Now 100%', 'Positive')
(' These people dont have food, shelter even clothes as seen in this picture. But
('Indias PM Modi addressing Indian Chamber of Commerce ICC Very impressive amp mot
   Indians doest know there capability.. agar indians apni shamta ka 90% b use ka
('This should have been initiated long time back.\nBetter late then never.\natamni
('atamnirbharbharat We Build Better Products.! Other Countries.\nThen We Can Do So
  5 Innocent Mathmaticians are sent to meet Albert Einstein By IndianArmy in Reba
 ' Atamnirbharbharat atamnirbhardoctors IMS2020 Only PhysiciansDoctors should infl
('A bridge to INNOVATION\nwith 2 years replacement guarantee.\n.\nAtamNirbharBhara
     is among front liner for development of RE in India. We are committed for su
('Day3\nList out one nonIndian brand or halal certified product you have purchased
('An initate by BJYM Udhampur.\n\nBJYM Udhampur with a great initate manufacturing
('Today, every section of the country, every citizen is being provided the facilit
 Support our country by goingvocalforlocal support all local businesses out ther
('Support our country by goingvocalforlocal support all local businesses out there
('Today, every section of the country, every citizen is being provided the facilit
('Today, every section of the country, every citizen is being provided the facilit
('Today, every section of the country, every citizen is being provided the facilit
('The patience with which the Prime Minister of India handled the situation. With
 ' There is huge compromise on Make In India , and AtmanirbharBharatAbhiyan by Mod
          This is best! Withdrawal! \nAtamnirbharbharat khud padho khud padhao',
('TEDBF At 71 million flyaway costs, TEDBF It will be Cheaper then Rafale M and F1
(' Swadeshi is the only solution atamnirbharbharat ', 'Positive')
(' Swadeshi is the only solution atamnirbharbharat', 'Positive')
('Swadeshi is the only solution atamnirbharbharat', 'Positive') ('Swadeshi is the only solution atamnirbharbharat', 'Positive')
 ' AS PM of India said to build a Atamnirbharbharat. We are working for the same f
 ' AS PM of India said to build a Atamnirbharbharat. We are working for the same f
('atamnirbharbharat \nnochina\nJoin this slogan maximum to maximum and promote to
(' Customers duty on bambo import by agarbati manufacturer is increased from 10% t
('atamnirbharbharat 20 lakh crore package. ', 'Negative')
('IT professionals crowd the job street via \n\nJobSeekersWednesday Jobs ITcompa
('Gig coders to become a mainstream phenomenon in Indian IT via \n\nCodersTeach
              atamnirbharbharat Support!', 'Positive')
(' Slowly and steadily nearing completion of all works at factory. will commence
 SamajikSamarasta Atamnirbharbharat\nProtection of workers rights and safety\nvia
(' Slowly and steadily nearing completion of all works at factory. will commence
('No words \nNarendermodi ABPnews TimesofIndia hindustanibhau BJPJanSamvad Kejriwa
 ' We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni
(' We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni
(' Increased tax on Indian good what ever it may be and govt scheme of Atamnirbh
('One Swadeshi Movement was started in 1905 for our National Independence... \n\nN
('Today the trust with which the people of India are supporting each other is comm
('Slowly and steadily nearing completion of all works at factory. will commence t
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 ' We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni
('First strong step towards Atamnirbharbharat ', 'Positive')
(' We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni
 ' We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni
  We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni
  We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni
  We don't helieve in freehies Sir. 1.3 hillion Indians strongly helieve in Atamni
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we wone bettere in recepted bir, I.D billion indians berongly bettere in redunit (' We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamni ('We dont believe in freebies Sir, 1.3 billion Indians strongly believe in Atamnir (' Its good at this tough time...I will make the import expensive and help the exp ('For the luxurious home decor 1800121100027 TollFree for appointments\nluxurysofa ('It is time to make India atma nirbhar, become vocal for local PM Modi\nAtamnirbh M still waiting for visit of the concern person. All are just zipped mou (' please consider Avg height of Indian women and not go by international standard ('Slogans shifting from India to Bharat by StandupIndia atamnirbharbharat', ' (' Only going nifty long looking at Dow is real atamnirbhar... For our TV channel ('Nitish Kumar reveals his big election promise for upcoming Bihar polls \n\natam ('Received on whatsapp but true\nIndiaFightsCorona \nIndiaFightsCoronavirus \natam ('Ourgreatpmmodiji, our nation proud of you and we all with you, \natamnirbharbhar (' India deploys main battle tanks closer to Chinese borderMBT T72M1 ,MBT T90 .\nC (' India deploys main battle tanks closer to Chinese borderMBT T72M1 ,MBT T90 .\nC (' India deploys main battle tanks closer to Chinese borderMBT T72M1 ,MBT T90 .\nC ('India deploys main battle tanks closer to Chinese borderMBT T72M1 ,MBT T90 .\nCh (' I you Amul \nFruit amp Nut Chocolate \nMilk\nCheese\nIce Cream\nGhee\nDahi\nF (' Dnt spread fake news .. we are under control, every thing open now.. we r free Well said, but quality should not be compromised.atamnirbharbharat', 'Negative' ('How you will make Atamnirbharbharat \n\nModi NarendraModi India IndiaFightsCoron (' Good soon you along with other congi will be seen there only \n\nAnd remember (' You should think before this twit that ,this is Atamnirbharbharat Jo ('Boycott Chinese products and made our INDIA self reliant\n\n Atamnirbharbharat \ (' Your skin demands for a special care. So, give a sheer care of natural ingredie (' Where are the trains that were designed for the beds and medical equipments  $\,$  W ' Harkissanatamnibhar deshkelaal Atamnirbharbharat \nOne year old tractor\nSee co (' Mr Talibani Puppet PM needs it very badly as no money is left with him for adv ('Today, every section of the country, every citizen is being provided the facilit ('The patience with which the Prime Minister of India handled the situation. With NewsAlert Now 100%', 'Positive') ('Lesson from covid19\n1. Life is short\n2. Job are temporary\n3. health is wealth NewsAlert Now 100%', 'Positive')

import pandas as pd
df = pd.read\_excel('tweets.xls')
df.head(10)

 $\Box$ 

	Tweets	Sentiment_Type
0	In this difficult time, PM still enjoys the o	Positive
1	Slowly and steadily nearing completion of all	Positive
2	SamajikSamarasta Atamnirbharbharat\nProtection	Positive
3	Slowly and steadily nearing completion of all	Positive
4	No words \nNarendermodi ABPnews TimesofIndia h	Positive
5	We dont believe in freebies Sir, 1.3 billion	Positive
6	We dont believe in freebies Sir, 1.3 billion	Positive
7	Increased tax on Indian good what ever it ma	Negative
8	One Swadeshi Movement was started in 1905 for	Positive
9	Today the trust with which the people of India	Positive

(' AS PM of India said to build a Atamnirbharbharat. We are working for the same f df.tail(10)

C→

	Tweets	Sentiment_Type
190	There is a lot more coming on your way \nWe ha	Negative
191	RBIsay NoToPMCBank YesToYesbank\n Narendermod	Positive
192	atamnirbharbharat by opening arms, ammunition	Negative
193	All that MLA and MP do is make money for the	Positive
194	There is huge compromise on Make In India, a	Positive
195	India was ruled and enslaved by Britain for 20	Positive
196	The patience with which the Prime Minister of	Positive
197	All that MLA and MP do is make money for them	Positive
198	RBIsay NoToPMCBank YesToYesbank\n Narendermod	Positive
199	RBISAYS NoToPMCBank YesToYesbank\n Narendermo	Positive

## Final Code

```
#credential file with keys
import credential
import oauth2 as oauth
import json
import re
from textblob import TextBlob
from textblob.sentiments import NaiveBayesAnalyzer
import xlwt
from xlwt import Workbook
# credential can be stored as config file, or in a database, or in environemt variable
CONSUMER API KEY = credential.consumer key
API_SECRET_KEY = credential.consumer_secret
ACCESS_TOKEN = credential.access_token
ACCESS TOKEN SECRET= credential.access token secret
class OauthClient():
  def __init__(self):
    self.consumer = oauth.Consumer(CONSUMER API KEY, API SECRET KEY)
    self.access_token = oauth.Token(ACCESS_TOKEN, ACCESS_TOKEN_SECRET)
    self.client = oauth.Client(self.consumer, self.access_token)
  def get_tweets(self, query='%23atamnirbharbharat', count=100, lang='en', result_type=
    search_endpoint = "https://api.twitter.com/1.1/search/tweets.json?q={}&result_type=
    response, data = self.client.request(search endpoint)
    tweets = json.loads(data)
    tweets_list = []
    for tweet in tweets['statuses']:
        tweets_list.append(tweet['full_text'])
        #print(tweet['full text'])
```