from tweepy.streaming import StreamListener

from tweepy import OAuthHandler

from tweepy import Stream

import twitter\_credentials

# # # # TWITTER STREAMER # # # #

class TwitterStreamer():

"""

Class for streaming and processing live tweets.

"""

def \_\_init\_\_(self):

pass

def stream\_tweets(self, fetched\_tweets\_filename, hash\_tag\_list):

# This handles Twitter authetification and the connection to Twitter Streaming API

listener = StdOutListener(fetched\_tweets\_filename)

auth = OAuthHandler(twitter\_credentials.CONSUMER\_KEY, twitter\_credentials.CONSUMER\_SECRET)

auth.set\_access\_token(twitter\_credentials.ACCESS\_TOKEN, twitter\_credentials.ACCESS\_TOKEN\_SECRET)

stream = Stream(auth, listener)

# This line filter Twitter Streams to capture data by the keywords:

stream.filter(track=hash\_tag\_list)

# # # # TWITTER STREAM LISTENER # # # #

class StdOutListener(StreamListener):

"""

This is a basic listener that just prints received tweets to stdout.

"""

def \_\_init\_\_(self, fetched\_tweets\_filename):

self.fetched\_tweets\_filename = fetched\_tweets\_filename

def on\_data(self, data):

try:

print(data)

with open(self.fetched\_tweets\_filename, 'a') as tf:

tf.write(data)

return True

except BaseException as e:

print("Error on\_data %s" % str(e))

return True

def on\_error(self, status):

print(status)

if \_\_name\_\_ == '\_\_main\_\_':

# Authenticate using config.py and connect to Twitter Streaming API.

hash\_tag\_list = ["donal trump", "hillary clinton", "barack obama", "bernie sanders"]

fetched\_tweets\_filename = "tweets.txt"

twitter\_streamer = TwitterStreamer()

twitter\_streamer.stream\_tweets(fetched\_tweets\_filename, hash\_tag\_list)