MINI PROJECT

I have retrieved some data from twitter using twitter API for a query like #mh17 and created a bar chart between countries (x-axis) and number of tweets for query = “#mh17”(Y-axis).

**Language Used: Python**

**Two programs:**

1. twitter\_analysis.py
2. read\_from\_csv.py

**Steps which I have followed:**

* Created an account and app on <https://apps.twitter.com/> and got consumer keys and access tokens.

**consumer\_key = 'XXXXXXXXXX’**

**consumer\_secret = 'XXXXXXXXXXX’**

**access\_token = ‘XXXXXXXXXXXXXXXXXXX’**

**access\_token\_secret = ‘XXXXXXXXXXXXXXXXX'**

1. **twitter\_analysis.py** (run : python twitter\_analysis.py)
   1. Python package which need to installed to use these programs : tweepy, geopy, numpy, matplotlib and dependencies
   2. Used OAuth Handler to authorized twitter app using the keys and tokens.
   3. **api = tweepy.API (auth):** Creation of the actual interface, using authentication
   4. To get all the attributes of the user of tweet used api.search() method with filtered parameters
   5. Above search function returns JSON Object
   6. Retrieved user attributes from JSON object of each tweet (like timestamp, status, location)
   7. It returns location from user profile if users share the location to their tweets
   8. From location I have got longitude and latitude using geopy module
   9. From longitude and latitude I have got country name
   10. All attributes stored in **result.csv** file.
2. **read\_from\_csv.py** (run : python read\_from\_csv.py)
   1. Opened and read **result.csv** file using csv module
   2. From .csv file I have count the frequencies of each countries.
   3. And stored country name as key and frequency of that country as value in python dictionary.
   4. And made a plot between them using matplotlib python module.
3. **Screenshot of Plots:**



