Q.1- What is an access token? Generate your access token for any API.(for example Twitter,Spotify etc).

Access Token-This in one of the keys are unique for every single user id and can be used to interact with the twitter database.

Your Access Token

Access Token

Access Token Secret

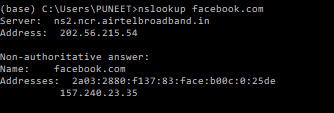
Access LevelRead and write

Owners

Owner ID

Q.2- Get the IP address of some common sites like Google, Facebook by using DNS lookup.





Q.3- Using Tweepy library try to extract tweets from Twitter.

import tweepy  
  
consumer\_key = ''  
consumer\_secret = ''  
  
access\_token =   
access\_token\_secret = ''  
  
auth = tweepy.OAuthHandler(consumer\_key, consumer\_secret)  
auth.set\_access\_token(access\_token, access\_token\_secret)  
  
api = tweepy.API(auth)  
  
public\_tweets = api.home\_timeline()  
for tweet in public\_tweets:  
 print(tweet.text)

Is the Braess Paradox related to Dropout in Neural Nets ? https://t.co/15z07yr2L7

Machine Learning Top 10 Articles for the Past Month (v.June 2018) https://t.co/TKNqPC6ZV9

Data Driven (Machine Learning) Control - Steve Brunton https://t.co/yL2WCkCAUn

What happened to u/arXiv\_abstract\_bot? https://t.co/sEKaeUEJ58

Inferring relevant features: from QFT to PCA https://t.co/a8Ps0XEURx

Talk: Building the Software 2.0 Stack by Andrej Karpathy https://t.co/wueXkKajEv

In DNNs, since Softmax is a generalization for the logistic function (sigmoid), does it suffer from the vanishing g… https://t.co/PH9EfhV4x6

Question about statement in Adversarial Autoencoders paper https://t.co/D0sg3zEynJ

Why do deep convolutional networks generalize so poorly to small image transformations? https://t.co/rGDEZA86Wk

Polyaxon – An open source platform for reproducible machine learning at scale https://t.co/lRo6VOJyYb

Variational Implicit Processes https://t.co/VNKvJBns0x

Learning Approximate Inference Networks for Structured Prediction (ICLR '18) - TensorFlow Implementation https://t.co/IsakkeNj2M

A simple example for data augmentation of time-series data https://t.co/53ZqMF9tOU

Results of Conditionally Thresholded CNN's for Weakly Supervised Segmentation https://t.co/nZEqfdZ8D0

Dimensionality reduction for time series data (with just 2 features)? https://t.co/cYA0zNh8MM

AMD Demos 7nm Vega GPU (32 GB of HBM2 memory) https://t.co/MWpY4O8DFU

Thoughts On ICLR 2018 and ICRA 2018 https://t.co/rhCddxuJuW

Computation of Document Similarity Using Minhashing, LSH and Jaccard Distance https://t.co/Wtbzgt1BUB

Primer to Attention (Explaining 'Attention is All You Need') still WIP, feedback appreciated! https://t.co/cId75LD4Rm

Image segmentation using deeplab https://t.co/1vFAIDUY8F

Q.4- What is a difference between library and API . Figure it out with examples.

1 A library is a collection of software that IMPLEMENTS an API. The “API” is a description of the interface between an application program and a library. for example, OpenGL is a “library” - and the API for it is defined in the OpenGL specification. The API comprises a bunch of named constants and a list of function calls specifications.

2. an Api is: standardized input/output to a separation of concern. Thus an API can make use of libraries and in turn libraries can ‘implement’ API’s in their functionality.For example, a ‘web api’ makes use of numerous libraries for oAuth, CORS, REST, etc, and within those libraries they may also make use of API’s so that they can get standardized input/output when calling them.

3. Library is collection of code (functions/ methods) which programmers can use in their own application code. API is the Application programming Interface which acts as interface between programmer and the library code.

4. Library is written in same language which is a collection of all the functionalities required for the use case.For example : Numpy is a library of Python, adding support for large, multi-dimensional arrays and matrices, along with a large collection of high-level mathematical functions to operate on these arrays.

Q.5- Try to access Spotify API . Find out some library for it and play some music.