Chloe Quinto CS 581

Homework 7 - Using the Twitter API to access Twitter Data I pledge my honor that I have abided by the Stevens Honor System - Chloe Quinto

Purpose

The purpose of this assignment is to get an understanding of Twitter Data. This assignment encapsulates ideas such as data search/retrieval and processing/analysis. It utilizes Tweepy API which is an easy to use Python library for accessing Twitter API.

Input

```
To run this program, navigate to directory and type in python3 main.py

The script asks the user

"What Twitter User Account do you want to analyze? Type "STOP" to end program"

The input to this question can be any twitter account. In the example below, I typed in @realDonaldTrump and @BarackObama or realDonaldTrump and BarackObama
```

Output

Figure 1: @realDonaldTrump

Figure 2: @BarackObama

What it does

main.py is the script used to access twitter data. main.py first prompts the user, "What Twitter User Account do you want to analyze? Type "STOP" to end program.".

While the input is not "STOP", it calls three main functions: getUser(), getMostRecentTweet(), and getFollowers().

```
def getUser(user_screen_name):
      Function gets information about a twitter user account information
      Such as: User Name, User Screen Name, User ID, User Description, Number of Followers
   global screen_name
      twitter_user = API.get_user(user_screen_name)
       # User Name
      user_name = twitter_user.name
       # User Screen Name
      screen_name = twitter_user.screen_name
      # User TD
      user_id = twitter_user.id
      # User Description
      user_description = twitter_user.description
      num_followers = twitter_user.followers_count
       print("User Name:", user_name)
       print("Screen Name:", screen_name)
      print("User ID:", user_id)
       print("User Description:", user_description)
       print("Number of Followers:", num_followers)
       print("===
      print("[ERROR] Could not get twitter user information")
```

getUsers() takes in the input user account name as its input and calls the tweepy API to get the following: user name, user screen name, user id, user description, and number of followers.

Then the script calls getMostRecentTweets() to print the user's most recent tweet.

Then the script calles getFollowers() to print the user's first 10 followers.

Finally, the script prompts the user again if they would like to analyze another twitter user account and repeats. If the user types "STOP", the script says "Sorry to see you go! Come back again!"