**Assignment 2 Report**

1. For this task I created a list of usernames and then used the lookup\_users method to find information about each user. I then used a for each loop to go through all of the users in the list and I printed the user name, screen name, ID, location, description, number of followers/following (friends)/tweets, and URL for each user (using each respective method, i.e., screen name is user.screen\_name).
2. For the second task, I used the followers\_ids method to get a list of a user’s followers, and then I converted it into a set (it’s important to note that this method caps a list at 5000, so the friends set for larger accounts will be impacted by this). I then used the friends\_ids method to get a list of the users a user is following, and I converted this to a set as well. I then used the set intersection method to find where a user’s followers and following overlap (since friends are bidirectional). Then I used a for loop to go through each friend and I converted their user ID to their screen name and printed this. To get the first 20 followers of a user, I simply used a for each loop with the followers method (which retrieves the first 20 followers), and I printed each screen name. Finally, I did this all within the for loop from part 1 so it was done for each user in the list.
3. For the first part of this task, I created a set the query topic equal to ‘Ohio weather’ and then I used the search method with the query topic and the items method to get a list of the first 50 tweets using all parts of the query topic. I then used a for loop to go through each member of this list and printed the text content of each tweet. For part b, I used the search method again, this time using the geocode attribute that takes in a value for latitude, longitude, and radius. I input the correct values for the Dayton region and used the items method to get the first 50 results once again. I then used another for loop to go through each of these tweets and print their text value.
4. For this task, I decided to do something that I found interesting and that I could see myself and many other Twitter users and sports fans at this school using. My idea was to deliver a feed of 25 tweets about Dayton basketball at 4 p.m. on each day that the Dayton Men’s Basketball team plays a game. In order to do this, I had to import several packages dealing with time. I had to set the time zone to EST (Dayton’s time zone), and get the current month, day, and year from the date and then convert them all into one string (rather than int) representing the date. I also collected the current time and put this in hour:minute format as a string. Then I collected and created a list of all of the days the Dayton Men’s basketball team plays on this season. Next, I used a for loop to go through the list of gamedays, and I checked if the current date was a gameday. If it is and the time is 4 p.m., then it would collect a list of 25 tweets containing the words Dayton and basketball. Finally, I used a for loop to go through each of these tweets and print the text value.

REFERENCES:

<https://docs.tweepy.org/en/stable/>

<https://developer.twitter.com/en/docs>

<https://www.geeksforgeeks.org/>

NOTE: I wasn’t sure whether to turn in my code as a ipynb or py file so I submitted both.