CSE 482 Exercise 2 (Date: September 28, 2022)

The purpose of this exercise is to help you get familiar with using Python libraries to download data from Twitter API. Follow the instructions below to complete the exercise. Use jupyter notebook to write your code and to execute your program. Save the notebook as exercise2.ipnyb.

1. Create a Twitter account and create a new Twitter application using the account. Make sure you write down your consumer and access tokens and secret keys.

2. Following the Python tweepy example given in the lecture, use the Twitter Search (REST) API to download 30 most recent tweets from the Twitter user named "CDCgov". This can be done by changing the keyword string given in the sample code from "msu" to "from:CDCgov". For more information about the query term to use, read the documentation available at https://dev.twitter.com/rest/public/search. Save the text messages of the returned tweets into a solution file named cdcgov.txt. Make sure you save only the text part of the tweet message NOT the entire JSON message (which includes username, coordinates, etc). See the example given in the lecture notes on how to access the text part of the tweets. The following is an example about how to save a string into a file:

```
text = "this is a string"
with open("filename","w") as f:
        f.write(text)
        f.write("\n")
f.close()
```

3. Modify the code given in the lecture to use the Twitter Streaming API for downloading tweets containing the keyword "politics". Set the time limit to 60 seconds and store the results in a file named politics.json.

Deliverables: Submit (via D2L) the following information: (1) your python notebook exercise2.ipnyb that contains the code for executing steps 2 and 3 above, and (2) the tweet messages from step 2 (cdcgov.txt), and (3) the output of step 3 (politics.json).