Lab 9. Collect Tweets in Python

Objectives:

- Learn how to collect social media data with APIs;
- Learn how to insert data into MongoDB in Python.

Data:

- Collect Tweets with REST
- Demo code: https://github.com/xbwei/Data-Mining-on-Social-Media/blob/master/MongoDB/Collect_Tweets_into_MongoDB.ipynb

Steps:

1. Start the Jupyter notebook instance, create a config.ini file, and type your MongoDB connection info and Twitter API keys into the config.ini file. The Twitter API keys are provided on Canvas. The format of the config.ini is like the following:
   [mytwitter]
   api_key = <your api key>
   api_secrete= <your api secrete>
   access_token = <your access token>
   access_secrete = <your secrete>
   [mymongo]
   connection = <your connection string to python>
2. Download the demo code and upload it to your Jupyter notebook instance.
3. Connect to your MongoDB database, and create a database named **lab9** and a collection named **tweet_collection**.
4. Use REST API to collect tweets talking about the **election**. You can try different **q** (and **geocode**) parameters.
5. Add a text key to the tweets' text key.
6. View the collected tweets with the **pprint** and the **pandas** python libraries.
7. Make sure you have more than 1,000 tweets in total. If not, repeat Step5. Please don't delete your collection, as we will the Twitter data in the following weeks.
8. View the collected Tweets on MongoDB Atlas
9. Stop your Jupyter Notebook instance and End the AWS Learner lab.
10. Publish your notebook on GitHub.

Submission:

- The URL of your notebook from step 7