Sentiment Analysis using Python

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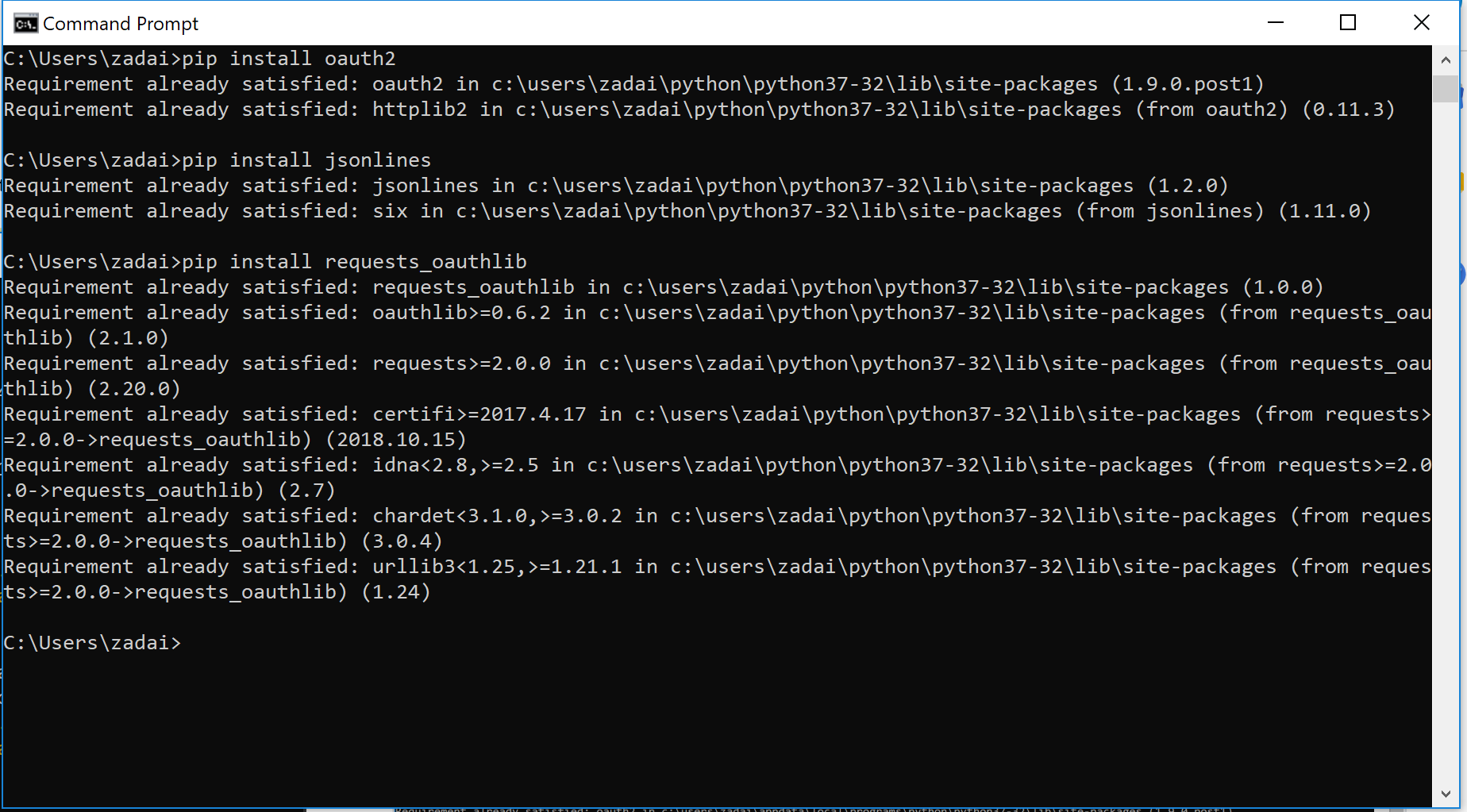
10/31/2018

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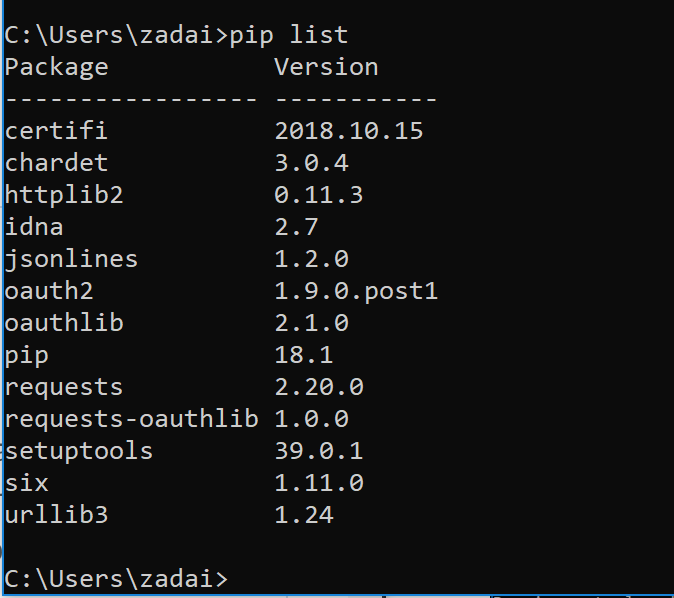
MSDS - 600

**Assignment** - To use a Developer Twitter App and configure a Python environment that collects tweets.

1. The first part of the assignment was to make sure I had pip, oauth2, jsonlines, and requests\_oauthlib were all installed on my Python.
   1. Installing these packages will be necessary later when running our python code
2. I already had the pip package preloaded onto Python, but using that I needed to use it to help me get the other packages.
3. I started with using pip to download oauth2, than jsonline and finally requests\_oauthlib by running the code *pip install “Insert package here”*



4) To do a quick check and make sure we have all the packages we need all we need to do is run the command *pip list* and we will get a clean list of all of our loaded packages in Python.

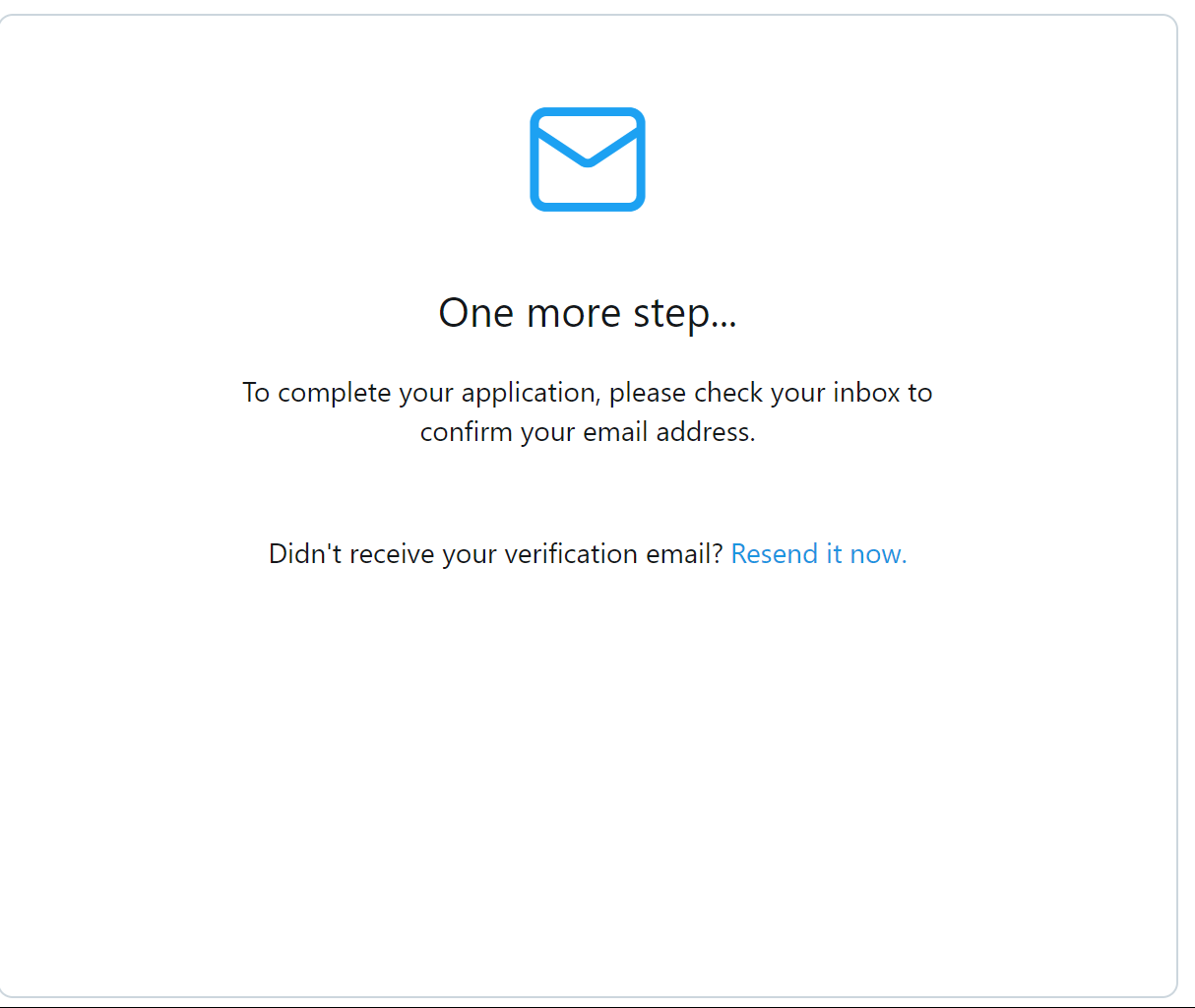


5) Now that we have the necessary packages in Python we can move onto the work that needs to be done in Twitter.

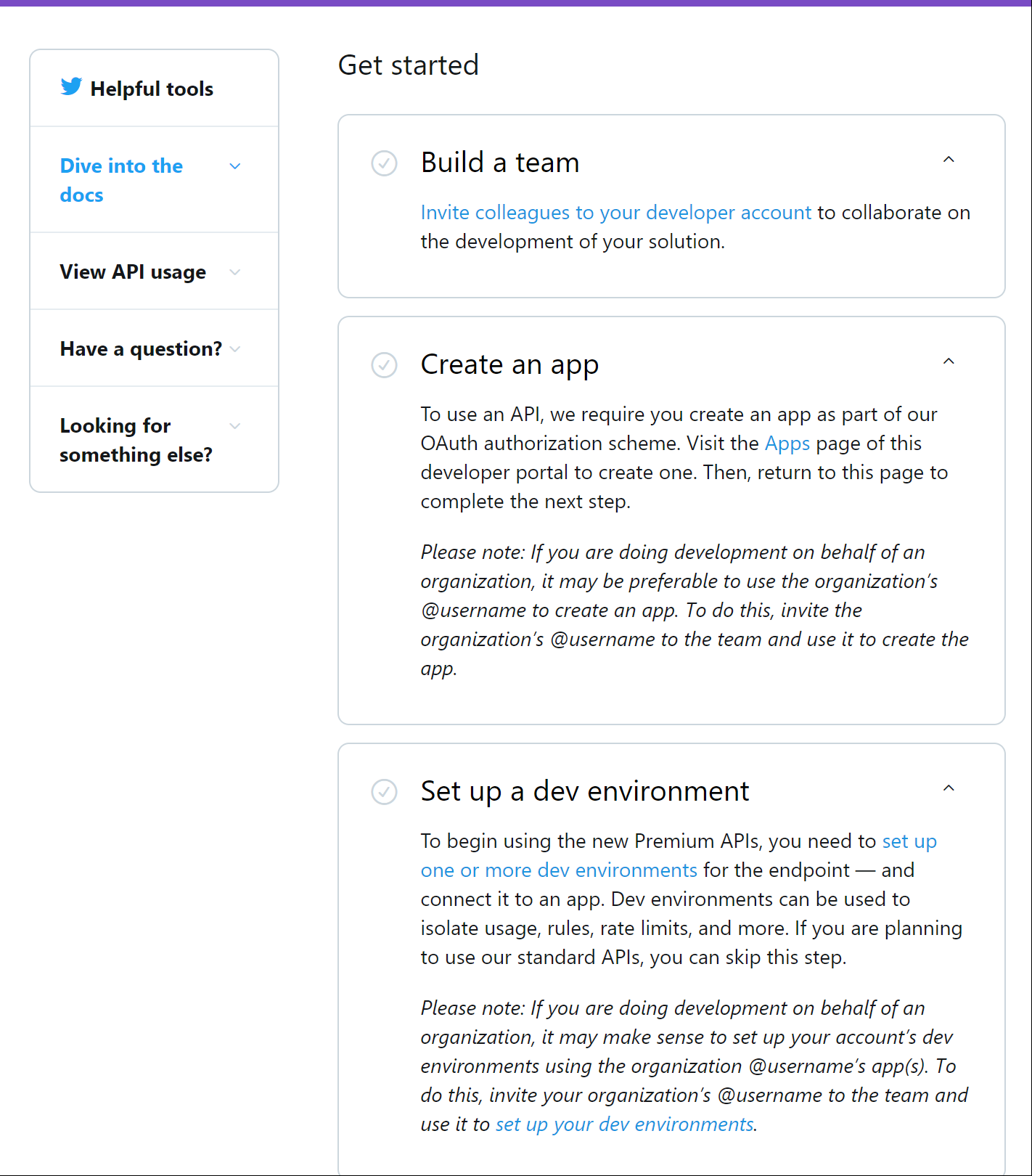
6) I already had a twitter account prior to this project, so all I needed to do was fill out the information Twitter asked to get a developer account, but first needed to go to [*https://app.twitter.com*](https://app.twitter.com)

7) There, twitter will ask you to fill out some detailed questions about setting up a developer account and what your uses of it will be.

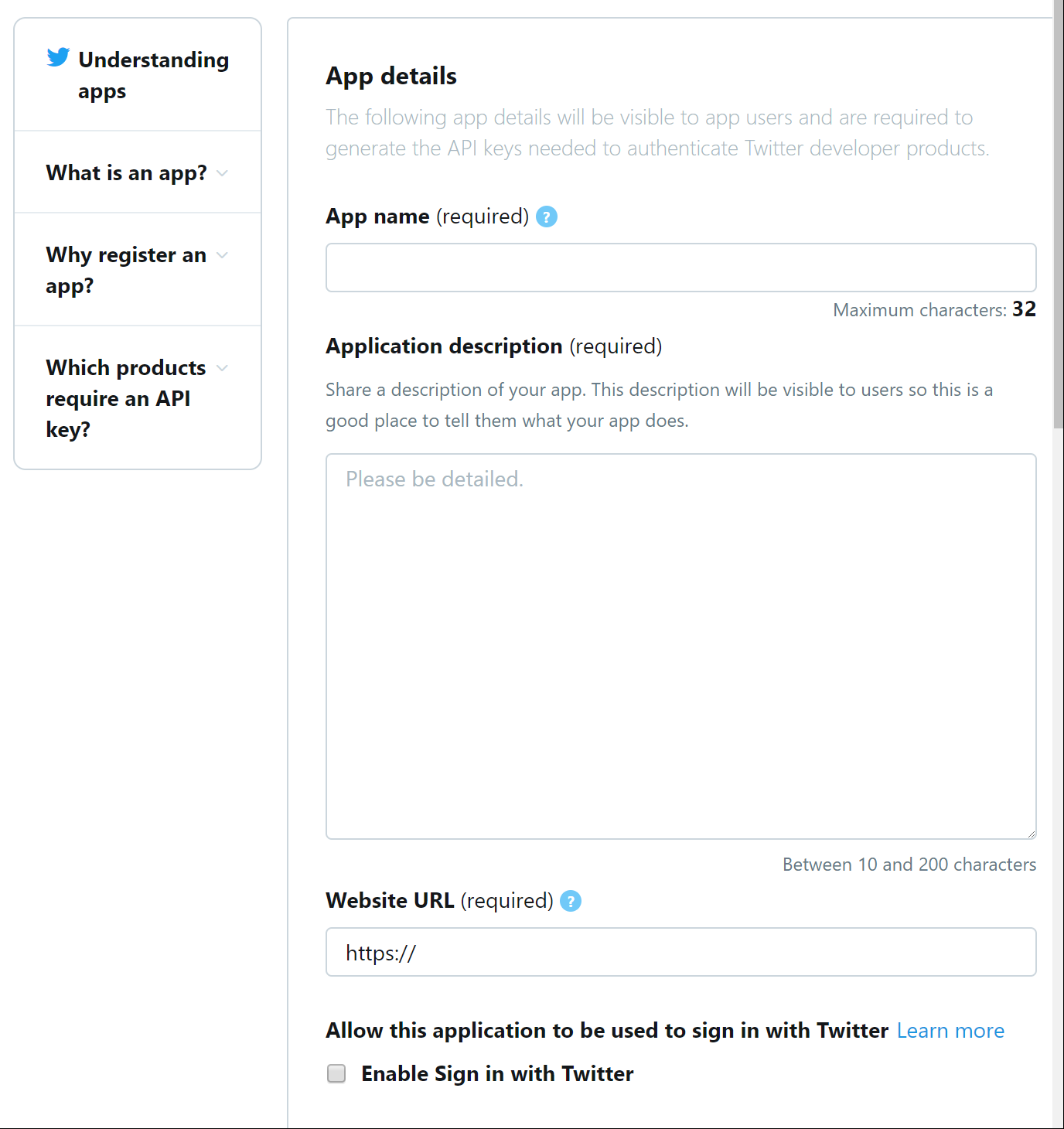
1. Since I had a twitter account prior, I was asked to verify my email, so I was asked to verify it on the Twitter site as well as in my personal email account.



b) Once verified, I was allowed to go to Create an App and fill out the information about my app that Twitter wanted to know.

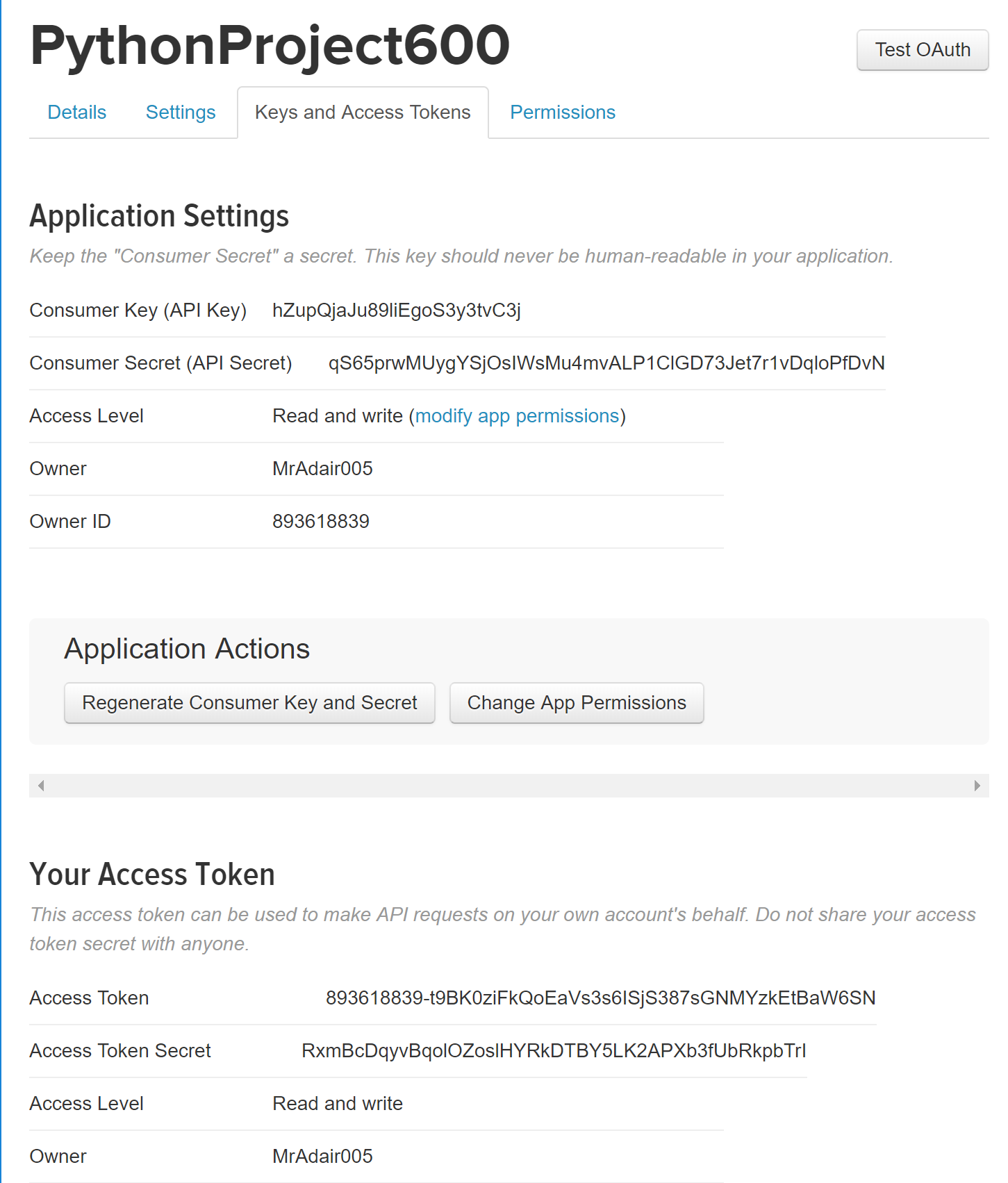


c) Twitter asks for the App Name, Application description and the Website URL to get started.



d) I named my project PythonProject600 and moved on to the next section needed from Twitter for the assignment.

8) Once I filled out the details needed, I was able to toggle between four tabs, Details, Settings, Keys and Access Tokens, and Permissions. Where I needed to go was the Keys and Access Tokens tab.



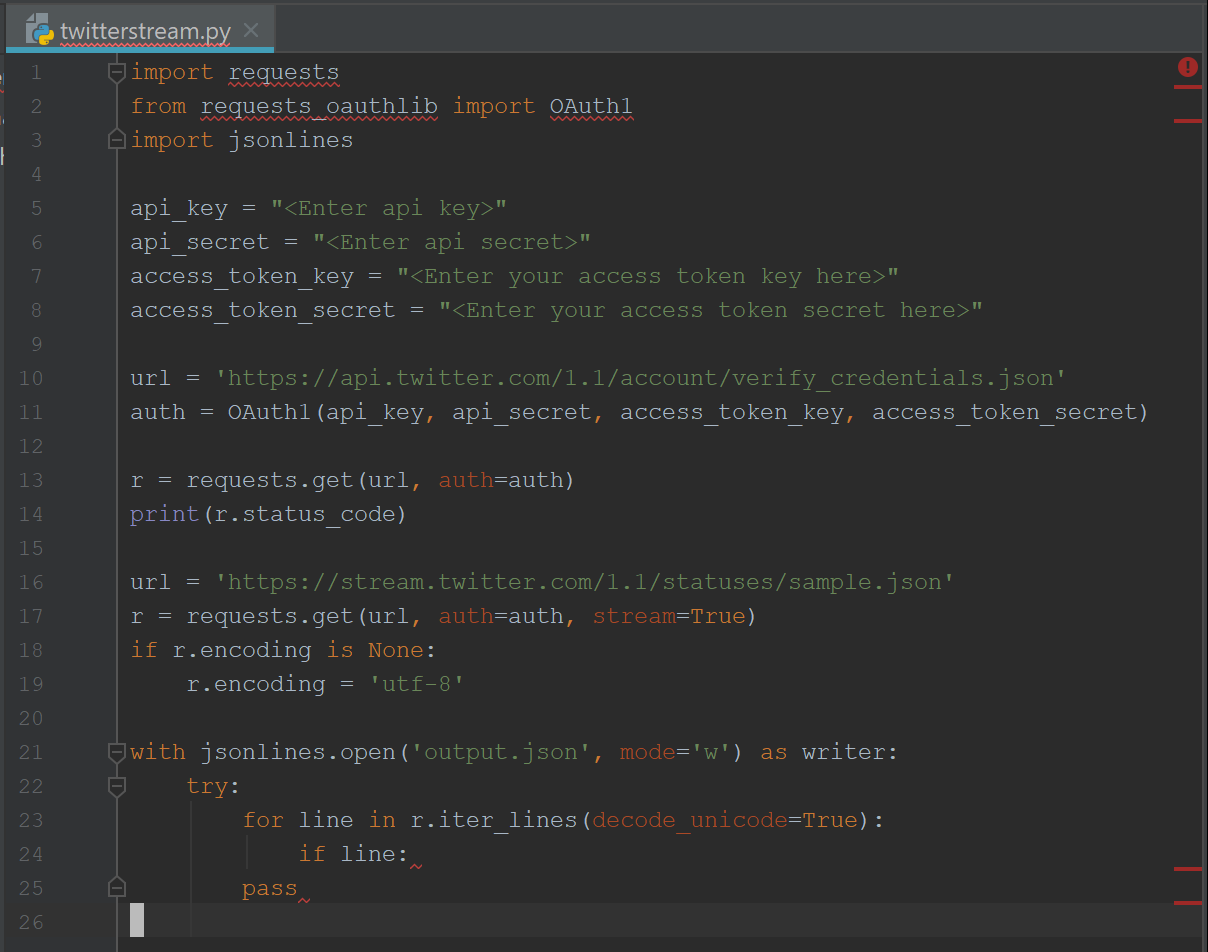
9) What is important about this tab is that it is where the API Key, API Secret, Access Token, and Access Token Secret are housed and are needed fill ins for our twitterstream code.

1. For my project I was assigned
   1. API Key = hZupQjaJu89liEgoS3y3tvC3j
   2. API Secret = qS65prwMUygYSjOsIWsMu4mvALP1ClGD73Jet7r1vDqloPfDvN
   3. Access Token = 893618839-t9BK0ziFkQoEaVs3s6ISjS387sGNMYzkEtBaW6SN
   4. Access Token Secret = RxmBcDqyvBqolOZoslHYRkDTBY5LK2APXb3fUbRkpbTrl
2. This is all that is needed from Twitter so now we can go back to the assignment page.

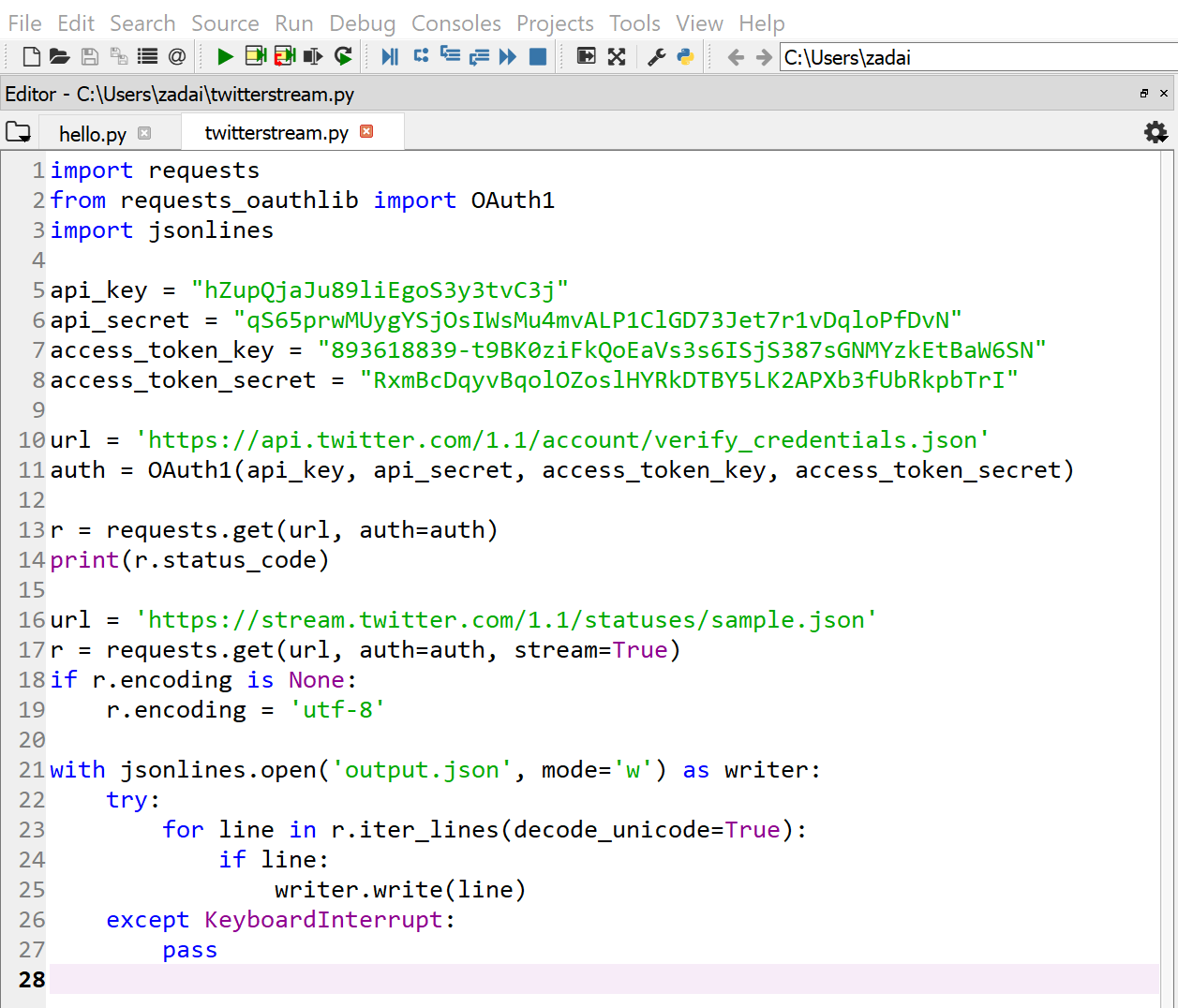
10) From the assignment page I downloaded the twitterstream.py which is the biggest key to the project.

11) From an IDE you can look and see the code

1. Below I originally opened my code within in Pycharm, but later when making my edits I used Spyder as my IDE.

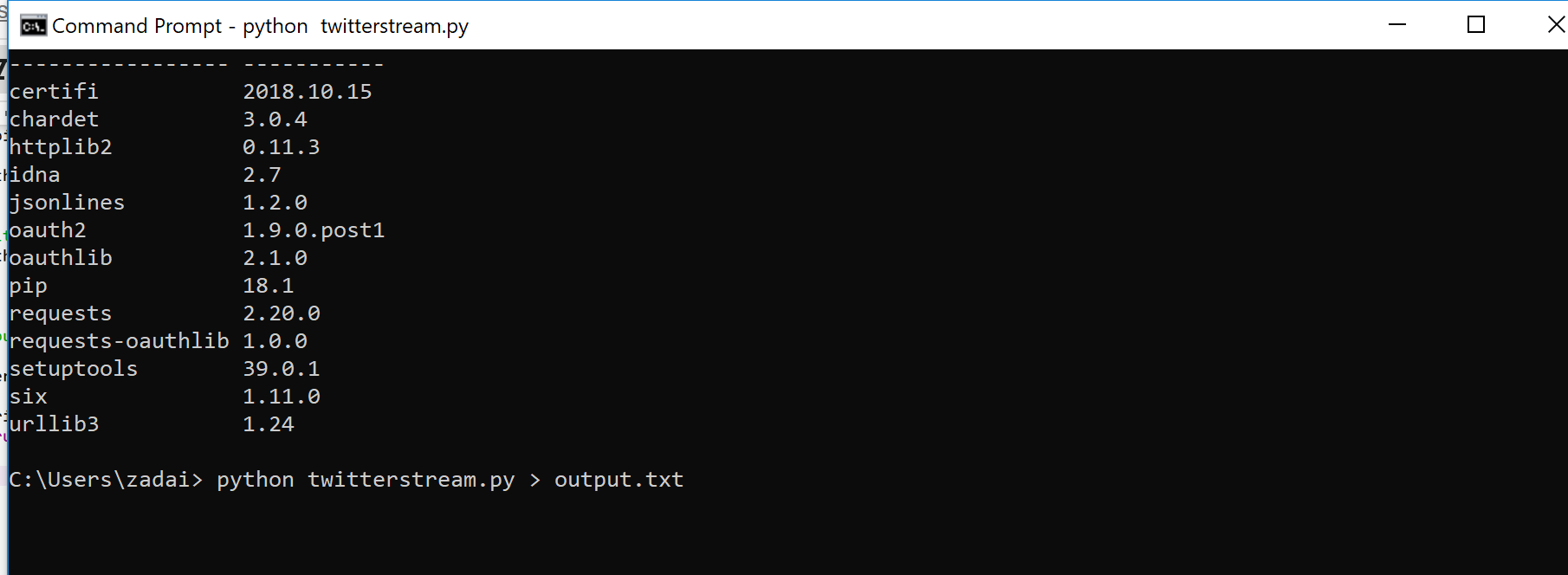


12) As you can see, from lines 5-8 we need to fill in our API and access data that Twitter gave us.



13) The data is now in lines of code it needs to be and we can save and close twitterstream.py

14)Next, open back up the command prompt and execute the command: *python twitterstream.py > output.txt*

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15) It seems like nothing happens, but after about 30 seconds hit *ctl + c* to stop the output file from running anymore.

16) Go out to your file location and there you will find a populated file named output.json, open it up in wordpad and take a quick look at the new file.



17) It looks like a jumbled mess but it is our output from twitterstream.py with the API and Access data from Twitter and is the stopping point of Week two’s project.