

COURSE REQUIREMENTS

PSY31170 Winter Session 2019

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Shepard 105 Tu-Fri 1:pm – 5pm

All material is available on github at <https://github.com/PSY31170CCNY>

All completed work is to be uploaded into your personal class github directory at

<https://github.com/PSY31170CCNY/Class/<your username>>

All work must be uploaded no later than midnight Friday 1/25/2019.

You are required to turn in 3 class assignments, which are titled

- assignment1.txt, (you did this in class already)
- assignment2_blackjack.txt (complete the simplified blackjack game we started in class)
- assignment3_Twitter.txt (process the 500+ Trump Tweets to generate a sorted count of individual tweeter names and another sorted count of retweets and @xxx references)
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In addition you must turn in a class project, as demonstrated in the file

ClassprojectExample.py

In summary, this class project requires you to

- choose and download a publicly available data file from

<https://opendata.cityofnewyork.us/>

containing data about a topic or area that interests you. Do not use the same file as ClassprojectExample.py uses, even if you are interested in restaurants.

- Read the data into python using the csv module
- Using the data description provided by the website, convert the csv file into a python dictionary or list that can be easily processed. Make a Class that can be used to create objects that hold a row of data and have functions to manipulate or analyze the individual row of data (like the Restaurant class in the example.)
- Write comments that state what your research question is that you hope to find in the data, and describe how you will process the data to get the needed information.
- process the data by reading through the python dictionary or list,
 - retrieve the needed pieces of data from each record (each csv row read into python), probably using various text string functions and creating an object from your Class.
 - Compute the answer to your research question by adding or counting or otherwise calculating some relevant values aggregated from the individual data records, by looping through the list of all Objects created by reading in the data file.
 - In the program, use comments to document the summarized results you expect, and write a short separate text or doc file summarizing what you did and what you found out.