CS 4661: Introduction to Data Science
Homework1
Due Date: Fri, September 20

- The goal of this homework is to learn/review Python syntax, and also learn how to work with Jupyter Notebook.

- Please download and install the latest version of Anaconda (Python3.7). Anaconda is a free data science platform that easily installs Python, Jupyter Notebook, and many other popular packages/libraries for data science such as Scikit-Learn, Numpy, Pandas, Scipy, … that will be later used in this course.

- Open Jupyter Notebook.

- Download the file "CS4661-Lab04-PythonSyntaxReview-Lab1.ipynb" from CSNS, upload this file in Jupyter Notebook, and the open it.

- Review, Understand, and Execute every block (cell) of the code. Feel free to add or change code or mark down blocks in Jupyter.

- Notice the python syntax. Try to learn the *Pythonic* syntax and style of coding (i.e. the short simplified form of commands in python). Remember that using pythonic form of coding in job interviews will impress the interviewers!

    o E.g. : a,b = b,a   will swap a with b
    o E.g. : a,b = 1,2 is equivalent to   a = 1 ; b = 2
    o E.g. : mylist_sqr = [i*i for i in range(5)]

- Try to make some changes in the code, play with variables, syntax, … , and run the code each time to see the effect of your changes on the results.

- "Download" your executed code (including your results and outputs) in a new ipynb file, and submit that to CSNS before the due date.