PIC 16, Winter 2019

Adapted from Matt Haberland's notes.

- (Optional) Install Python (Anaconda Distribution)
  - Visit https://www.anaconda.com/download
  - Download Python 2.7 version (Not Python 3.6)
  - Run file and follow prompts. Allow Python folder to be added to the system path.
  - Note that three important programs have been installed: Python itself, Jupyter, and Spyder.
- Getting started with Python
  - Using the command line.
    - On Windows, select the start menu and search "cmd". This should open a command prompt in a console window.
    - Type `python` and press enter. You should get a welcome message and your prompt should change to `>>>`. If you get an error, the Python folder was not added to the system path. Search Google for "add python to system path Windows 10" or similar for solutions.
    - Type `print "Hello World!"` and press enter. The string should be echoed below your command. Try some arithmetic and see what happens.
  - Using a Jupyter Notebook
    - Start the program "Jupyter Notebook". A console window will open and so will a tab in your default browser. *Do not close the console window.*
    - In the GUI shown in your browser, browse to the desired location (maybe a folder for this class?) and create a new Python 2 notebook..
    - At the prompt, type `print "Hello World!"` and press shift + enter (or select the "play" icon at the top, which has been pretty standard looking since the days of cassette tapes…). The string should be echoed below your command. (If you get an error about the kernel, try starting a command prompt (like above) and entering two commands: `conda install ipython` and, after that has run, `ipython kernel install`. Restart Jupyter and try again.)
  - Using Spyder.
    - Spyder works like any other IDE. This is probably where you want to do the assignments because you can save `.py` files, which is the required format for submission on CCLE.

  You are welcome to use any of the options above this quarter. I suggest switching between Jupyter and Spyder to get experience with both; each has its advantages.