LaSalle College
Vancouver

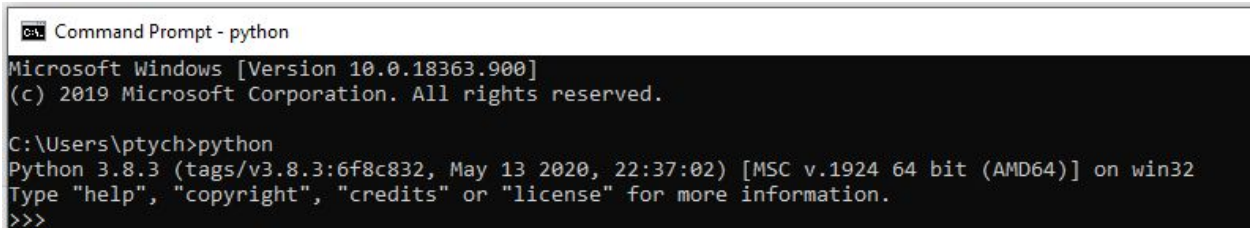
Installing Python 3

https://www.python.org/downloads/windows/
Download: **Windows x86-64 executable installer**

Run the exe:

- Check **Add Python 3.8 to PATH**
- Click **Install Now** with default settings

Test that Python is installed successfully by running cmd prompt and type in:
`> python [enter]`



Create Virtual Environment with venv

It is a good idea to create a virtual environment to isolate your project's package dependencies.

In the directory you want to keep your course projects (e.g. D:/PeterGit/VGP337), type in:
`> python -m venv myenv [enter]`

This will create a new environment called "myev". To activate your environment, run the activate batch file by typing:

`> env\Scripts\activate [enter]`

You should see a prefix to your command prompt with the environment name.

(myenv) >

From here on, anything you install for python will be applied to just this environment only, keeping your machine's global python packages clean.

Install JupyterLab

JupyterLab is a web browser based IDE which enables you to work with documents and activities such as Jupyter notebooks, text editors, terminals, and custom components in a flexible, integrated, and extensible manner.

https://jupyterlab.readthedocs.io/en/stable/getting_started/overview.html
https://jupyter.org/install.html

To install JupyterLab, open cmd prompt, then type:
(myenv) > pip install jupyterlab [enter]

To start the JupyterLab server from any location, navigate to the desired directory on your computer, then type:
(myenv) > jupyter lab [enter]

This will start the server and launch the UI in your browser.
Next read through this page to get familiar with the Jupyter Notebook shortcut keys:
https://towardsdatascience.com/jypyter-notebook-shortcuts-bf0101a98330

Install Pygame, TensorFlow, MatplotLib, scikit-learn

https://www.pygame.org/wiki/GettingStarted
https://www.tensorflow.org/overview
https://matplotlib.org/
https://scikit-learn.org/stable/

(myenv) > pip install pygame [enter]
(myenv) > pip install tensorflow [enter]
(myenv) > pip install matplotlib [enter]
(myenv) > pip install scikit-learn [enter]