Python Basics Preparation

**Readings**

We will complete the readings listed below as we progress through the course. These readings will help you understand the basics of Python. These are available for free online.

* *Think Python* ( [pdf](https://mica.instructure.com/courses/14983/files/904025?wrap=1) or [Website](http://greenteapress.com/thinkpython2/html/thinkpython2002.html))
  + Chapter 1, The Way of the Program, 1-7 pgs.
  + Chapter 2, Variables, expressions and statements, 9-14 pgs.
  + Chapter 3.1 – 3.8, Functions, 17-22 pgs.
  + Chapter 5 - 5.7, Conditionals, 39-43 pgs.
  + Chapter 6.1, Fruitful Functions, 51-52 pgs.
  + Chapter 7 - 7.4, Iteration, 63-66 pgs.
  + Chapter 8 - 8.7, Strings, 71-77 pgs.
  + Chapter 10 - 10.9, Lists, 89-95 pgs.
  + Chapter 11 - 11.3, Dictionaries, 103-106 pgs.
  + Chapter 14 - 14.3, Files, 137-139 pgs.

**Understanding Jupyter Notebooks**

* *The Jupyter Notebook* (access [here](https://jupyter-notebook.readthedocs.io/en/stable/examples/Notebook/examples_index.html))
  + What is the Jupyter Notebook?
  + Notebook Basics
  + Running Code
  + Markdown Cells

**Assignment: Software Installation**

The software required to write software in Python is normally not preinstalled on most computers. This assignment covers how to install Python and an interactive development environment.

Install the necessary software:

* + Download and Install Anaconda

**Videos**

Watch this [video](https://drive.google.com/file/d/1ELmWX82m7h5HHtnGmpOZS-hrTsKdu93r/view?usp=sharing) on how to navigate a Jupyter Notebook. Visit this website to follow along [https://mybinder.org/v2/gh/lwgray/pythonbasics/master.](https://mybinder.org/v2/gh/lwgray/pythonbasics/master)