Python Basics

Welcome to the (Re)Introduction to ESDS! This document contains information on the Python Basics that you should be familiar with before the event. Knowing these concepts will make understanding the rest of the tutorial easier.

Link to the GitHub repository for the live demo content:
https://github.com/hCraker/tutorial/tree/main

What you'll learn:

- How to run a Python program
- Basic Python data types
    - Integers
    - Floating point numbers
    - Strings
    - Lists
    - Dictionaries
- How to use loops
- How to use if/else statements

Have some questions?

If you have Python questions while going through this intro material, please submit them here. This way I can better prepare to answer them during the event. If you have questions about the overall event, email Heather at hcraker@ucar.edu

Install Python:

If you don't already have it, you can install Python from https://www.python.org/downloads/. We will be using the most recent version of Python. The documentation for it can be found here.

If you are brand new to Python:

This content is an in-depth introduction to Python. It is recommended for beginners who have never coded in Python before.
- (video) Python for Beginners - Learn Python in 1 Hour from Programming with Mosh

If you want a quick refresher:

This content is a quick overview of Python loops, flow control (if/else statements), and data types. If you have dabbled in Python before, and want to make sure you remember the basics, start here.
- (webpage) Quickstart: Zero to Python for a quick refresher for all the topics above

- (webpage) [Python Cheat Sheet](#) is great if you want to review a particular topic or ones not listed above