**Introduction to Programming Python**

**Install:** Visual Studio Code, Python

To create file write on Terminal “code file\_name.py”

To run file write on Terminal “python file\_name.py”

First Program:

print(“Hello World”)

**Functions, Variable**

Variables are used to store data that can be referenced and manipulated during program execution.

Function is a piece of code written to carry out a specified task.

**#printing my name**

**name = input("what is your name? ")**

**print(name) or**

**print("my name is", name) or**

**print("my name is" + name)**

Name is a variable that stores the user input (whatever the user types in response to the input() function).

The print("my name is", name) statement then prints the message "my name is" followed by the value stored in the name variable.

**Output:**

**what is your name? John**

**my name is John**

**Side Effects**

**Return Values**

**Comments**

We use comments in programming to remind what it is programmer intent and your code is doing.

Comments can also serve to be sort of a to-do list for programmer.

**A single-line comment starts with a #**

**Triple-quoted strings (""" """ or ''' ''') are often used for multi-line comments.**

**Pseudocode**

Pseudocode is a **high-level, human-readable representation** of an algorithm that describes the logic of a program without following a strict programming syntax. It is used to plan and explain code in a simple way before writing actual Python (or any other programming language) code.

PIL(pillow.readthedocs.io)(library)

Allows you to navigate image files as well and to perform operations on image files.