**Python Tutorial:**

**Day 1: Variables and Input Function**

* **\n** - to one line space
* **Input()** function **–** to give an input by the user
* **Variables** : is used to store the data
* **Len() function** – to get the length of the data

**Day 2: Data Types**

* **Strings** - “string of characters”.

**Ex**: print (“hello [0]”) - to get the first character by the index position of 0.

- Remember “” are not consider as a count and **spaces** are consider as 1 character in strings.

* **Integer** - print(100+100)
* **Float -** 102.12
* **Boolean -** true or false
* **Type casting in python -** in python we can’t use int in string or string in int so we are casting helps to convert.
* **Type () –** to get the data type of the respective variables.

**Mathematical Operators:**

1. Addition +
2. Subtraction -
3. Multiplication \*
4. Division /
5. Exponential \*\*
6. PEMDAS = is the order of execution on priority

* **Parenthesis ()** has highest priority.
* **\*\***
* **\* and /**
* **+ and –**

**BMI (body mass index):**

To calculate your Body Mass Index (BMI), you can use the formula:

BMI =Weight in kilograms / (Height in meters)2

Let's calculate your BMI with a weight of 60 kilograms and a height of 5.10 feet. First, we need to convert the height from feet to meters:

1 foot = 0.3048 meters

So, 5.105.10 feet is approximately 1.554481.55448 meters.

Now, plug these values into the BMI formula:

BMI =60(1.55448)2*BMI*=(1.55448)260​

BMI ≈602.41554*BMI*≈2.4155460​

BMI ≈24.82*BMI*≈24.82

So, your approximate BMI is 24.8224.82. According to the standard BMI categories:

* Underweight: BMI less than 18.5
* Normal weight: BMI between 18.5 and 24.9
* Overweight: BMI between 25 and 29.9
* Obesity: BMI 30 or greater
* **f – string** = it is used for string formatting in python