**Python Introduction**

**Python:**

It is open source and embeddable and dynamically type language and it is interpreted programming language and it is widely used in web development, App development, AI/ML, Data structures etc

**Created by:** Guido van Rossum

**First released:**1991

**Current version:** python 3.x(python 2 is deprecated)

**Features of python:**

* Simple &Easy to learn
* Interpreted language (no need to compile)
* Dynamically typed
* Extensive standard library
* Portable
* Object-oriented
* Supports GUI &web Development

**Applications of python:**

* Console base application
* GUL based application
* Web application
* Business Analytics
* Scientific application

**Variables:**

Variables is container which contains data

Eg: x=10

**Data Types:**

Data is nothing but collection of data and we have 2 types od data types in python

1.Primitive (can’t modified,we can re-assign)

Eg: str,int,float,bool

2.Non-Primitive (can be modified)

Eg: list,dict,tuple

**Operators:**

Operator is nothing but that performs specific operations on operands

**Types:**

1.Arithmetic

2.logical

3.comaprison

4.Assignment

5.Membership

**Conditional statements:**

Conditional statements is nothing but its execute certain blocks of code based on whether a condition is True or False.

**Types:**

* If
* If-else
* If-elif else
* Nested -if

**Looping statements:**

Looping statements is nothing but which is used to repeat a block of code multiple times.

**Types:**

1.For

2.while