**Practical No: 2**

**Aim:** Write /execute simple ‘Python’ program: Develop programs using different data type (numbers, string, tuple, list, dictionary)

**Course Outcome:** Write and execute simple ‘Python ’programs.

**Theory:** Built-in Data Types

In programming, data type is an important concept.

Variables can store data of different types, and different types can do different things.

Python has the following data types built-in by default, in these categories:

Text Type: str

Numeric Types: int, float, complex

Sequence Types: list, tuple, range

Mapping Type: dict

Set Types: set, frozenset

Boolean Type: bool

Binary Types: bytes, bytearray, memoryview

**Requirements:** Computer, Vs Code, Python 3.3.34.

**Flowchart:**

**Program:**

#Practical 2:

RollNo = 29

Percentage = 93.7

ID\_CODE = '19CM029'

Branch = 'CM'

Branches = ['CM','IT','EC','EE','CE','ME']

BJP = ('UK', 'UP','GOA', 'MANIPUR')

Sub = {'CM01':'Linux', 'CM02':'Python', 'CM03':'CLoud Computing', 'CM04':'ETCE', 'CM05':'Computer Graphics' }

print(RollNo, type(RollNo))

print(Percentage, type(Percentage))

print(ID\_CODE,type(ID\_CODE) )

print(Branch, type(Branch))

print(Branches, type(Branches))

print(BJP, type(BJP))

print(Sub, type(Sub))

**Output/Result:**

29 <class 'int'>

93.7 <class 'float'>

19CM029 <class 'str'>

CM <class 'str'>

['CM', 'IT', 'EC', 'EE', 'CE', 'ME'] <class 'list'>

('UK', 'UP', 'GOA', 'MANIPUR') <class 'tuple'>

{'CM01': 'Linux', 'CM02': 'Python', 'CM03': 'CLoud Computing', 'CM04': 'ETCE', 'CM05': 'Computer Graphics'} <class 'dict'>

**Conclusion: hence, In this python program we learned basic data type in python.**