**Python notes (Training)**

**Date:11.01.2021 (Day1)**

**TOPICS DESCUSED**

1.What is Python?

2.Features of python.

3.Variables in python.

4.Identifires in python.

5.Keywords in python.

6.Comments.

7.Data Types in python.

**1.What is Python?**

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Easy to learn as its syntax is easy and hence it emphasizes code readability. It was created by Guido van Rossum and released in 1991.

**2.Features of python.**

1. Easy to Code.
2. Free and Open source.
3. Object oriented language.
4. Integrated language.
5. Interpreted language.
6. Dynamically typed language.

**3.Variables in python.**

Variables are the container used to store the values which reserves memory locations to store values, or it’s a name given to some values.

**4.Identifiers in python.**

An identifier is a name given to entities like class, variables, functions, etc. It helps differentiate one entity from another.

**5.Keywords in python.**

Keywords are reserved words we cannot use keywords as variables or as identifiers or as class name.

**6.Comments.**

Comments are used to explain the code, or to make the code more readable. “#” represents the comment in python.

**7.Data Types in python. (Assignment).**

1. Text Type: String (str).
2. Numeric Types: int, float, complex.
3. Sequence Types: list, tuple, range.
4. Mapping Type: Dictionary (dict).
5. Set Type: set.
6. Boolean Type: Boolean(bool).

Examples:

1. **String:** X=”Hello World”
2. **Numeric:** x=5 🡪 int

x=5.5 🡪 float

x=5j 🡪complex

1. **Sequence Type:** x= [“apple”, “banana”, “pineapple” ] 🡪list

x= (“apple”, “banana”, “pineapple” ) 🡪tuple

x= range(6) 🡪range

1. **Set Type:**  x={“apple” , “banana” , “pineapple”} 🡪set
2. **Mapping Type:** x={“name” : ”Mahanth” , “age”: 25} 🡪Dictionary (dict)
3. **Boolean Type:** x=True