## Assignment - 2

1. What one the data types in phython?

Basic Data types in python

- · Integers .
- · floating point Numbers .
- · complex numbers.
- · String. Escape sequences in strings. Row strings. Triple - Quoted strings.
- · Boolean Type, Boolean Contest, and Trothiness.
- · Built . In Functions; Math. Type Conversion. Iterables and Herators. Composite Outa type, Classes, Altributes and Inheritance, Miscellaneous.
- · Conclusion .

2. Briefly Emplain history of phython.

Python was conceived in the late 1980's by Graido van Rossum at centrum coiskunde & Infamation (Cw1) in the Netherlands as a successor to the ABC larguage cotteet inspired by SETL), capable of Exeption handling and Interfacing with the Amoeba operating system. It's implementation began in Decem3. Explain the features of python.

Python is a dynamic high level, free oper Source and interpreted programming language. It supports object oriented programming as well as procedural oriented programming. In python, we don't need to declare the type of variable because - it is a dynamic typed language.

Features in python:-

- 1. Easy to code.
- 2. Free tound open source
- 3. object oriented language.
- 4. GUI programming support:
- High Level language.
- 6. Extensible feature;
- 7. python is portable language.
- 8. python is Integrated language.
- Interpreted language. etc.

- 4. Explain all the operators in python,
- (i) Arithematic operators: Addition

Subtration (-)

Multiplication (\*)

Division (1)

Modulus (1.)

(\*\*) Exponentiation

Floor division (11)

- (ii) Assignment operators: To assign values to variable "=",'+=', -=, /=, \*=, 1/=, ||=, \*\*=, 86 =, on=, /=, >>=, <<=.
- (iii) Composision operators: ==, 1=,>,<, ==,<=
- (IV) logical operators: and, on, not.
- Identify operators; is, is not.
- python member ship operators: In, not in.
- (VII) Bitwis operators .- B. 1, 1, 2, <<, >>

5. Justify cohy python is interactive interpreted

(.py) files are run in the python interpreter.

Interactive mode is a command line shell which gives immediate feedbooks for each statement, while summing previously fed statement in active memory. As new lines are fed into the interpreter, the few program is evaluated both in part an in whole.