## Assignment - 2

1 What the data type in Python? Explain.

hal) Pythou has the following data-types built in by default, in there Categories:

Text type ! Str.

Numeric type : int, float, complex

Seavence type! range, lint, tuple.

Mapping type : diet

Set type : Set, frozen Set

Boolean Type: bool

Bivary datatypes: byte, bytearray, memory veiw

## Standard dada ty pa!

A variable Can hold di-Arent types of valuer, Python Provides various Standard data types that define the Storage meadle don each of them. The data-types defined in Python are given below (1) Homber (2) String (3) List (4) tuple (6) dictorary.

- 2) Briefly Explain history of Python.
- Rossom of Centrum wiskunde & informatica (CWI) in the Nether lands on a successor to the ABC language.

  (itself inspired by SETL), Capable of Exception handling and its teracting with the Amoeba operating System.

  At implementation began in december 1989
  - => Pythou is a widely used general- Pur Pose, high-level Programing language
    - end its Syntax allows Programmers to Express Concepts in fewer lines of Code.
- 3) Explain all the operaters in Python.
- dol) operators in Python are Used to perform cortain operation; They follows as
  - => Arithmatic operators! +, -, \*, / 1.
  - => relational operators !- 4, >, <=, >=, ==
  - => Assignment operators: +=, -=, 1=, =, 11=
  - => Logical operators !- and, or, not
  - => identity operator : ix, ix not

- => member operator :- in, not in.
- => Bitwise operator: Bivary and, Bivary or, Bivary xop, <<,>>
- 4) Explain the features of Python?
- boil) => Eary to code
  - => object oriented language
  - => GoI Programming Language
  - => free and open Source
    - => high level lauguage.
    - => Portable language.
    - => Jutegrated Lauguage.
    - => Large Standard Library.
- 5) Justidy Why Pythou is interpreted language?
- A vulike L, C++ etc, Python is an interpreted language, Object oriented, The Compiler which is Campiled Programming Language, The Compiler translates the whole Code in one rather thank Language all errars are listed during Compilation.