## Assignment-3

```
1) what the data types in python? Explain.
a) Text Type :- St8
   Numeric Type :- int, float, complex
  Sequence Type :- list, tuple, range
  Mapping Type :- dict
Set Types: it set, frozenset
  Boolean Type :- bool
  Binasy Type bytes, byte assay, memory view
 Exit Data Type
X ="Hello morid" Sty
  X = 20 A state = 4 int
  x = 11
  X = ["apple", "barana", "chessy"] list
  X = ("apple, "banana", "cherry") tuple
  X = range (6)
 x={"name": "John", "age": 36} dict
 X= { "apple", banana", "cherry"} set
 x = frozenset ({ "appie", "banara", frozenset
               "Enerry"
                          10001
  X = True
  x = b"Hello"
                           bytes
  x= by+earray (5)
                           bytearray
  x = memory view (byte (5))
                           memory view
```

- 2) Briefly explain history of Python,
- Python was conceived in 1980 by Guido van
  Rossum at centrum wiskunde & Informatica (cwi)
  Python was developed by python software.

  developed: Fainthim.

Python 2.0 was released in 2000.

Python 3.0 was released in 2008.

Python 2 code does not sun un modified on Pythons

- 3) Explain all Operators in Python.

comparison operator: ==:!=;>;<;>=;<=
logical operator: and, or, not
ldentity operator: is is not

Membership ope rator: (in, not in

Bitwise operator :- 2,1,1, ~, ~, <<, >>

As teasons (" offic"), parans, the section

192 ["chessy" "chessy"] Set

- u) Explain the features of python.
- 2. Python is Easy to learn and use
  2. Python is more expressive means that it is
  more understanble and readable.
  - 3. Python is an interpreted language.
  - 4. Python can sun equally on different Platforms such as windows, Linux, Unix and Mancintosk etc; 5. Free and open spurce
  - 6. Python is object-oriented Language.
  - 7. Python has a large and boad library and Provides rich set of module
  - 8. Graphical user interfaces can be developed using python.
  - 9. It can be easily integrated with languages like
- 5) Justify why python is interfactive interpreted language.
- A) + Python Program runs directly from the source code
- -) Each time python programs are executed code is required.
- -) It is processed at runtime by the interpreter.
- -) The program need not be compiled before its execution.
- -) It is similar to PERL and PHP.