# Assignment - 2

**1.) what are the datatypes in Python?**

**A)** 1) numbers:- number data types store numeric values. Number objects are created when you assign a value to them

2.) Strings: strings in python are identified as continuos set of charactors represented in the quotation marks. Python allows either single or double quotes

3) Lists:- Lists are most versatile of python compound data types. A list contains items seperated by commas and enclosed within square brackets.

4.) Tuples:- A tuple is another sequence data type that is similar so the lists. A tuple consists of lists, however tuples are enclosed within parenthesis

5) Dictionary:- python dictnories are kind of hash table type. They work like associative arrays or hashes found in pert and consists of key value pairs. A dictionary key can be almost any Python type. but are usually numbers or strings values. on other hand can be any orbitary python object.

2) Briefly explain history of python

A) Python has become one of the most interesting programming languages of our time. It was created named after a tv show called monty Pythas flying circus

3) Explain all the operators in python

Operators in python are used to perform certain operation. They follow as

→ Arithemetic operators : $+, -, *, /, /, **$
→ Relational operators : $<, >, <=, >=, ==,$
→ Assignment operators : $+=, -=, !=, =, //=$
→ logical operators : and, or, not
→ Identify operator : is, is not
→ member operator : in, not in
→ Bitwise operator : Binary and, Binary or Binary xor, $<<, >>$

4) Explain features of python?

A)  * easy to code
* objected oriented language
* GOI programming subject
* free and open source
* high level language
* Portable language

⇒ Integrated language
→ large standard library

5) Justify why phy python is interpreted language.

A) Unlike C, C++ etc, python is an interpreted language, object oriented, the compiler which is compiled programming language. The compiler translates the whole code in one rather than C language all errors are listed during compilation.