

## Assignment

- 1) What the data type in Python? Explain  
Number: Number data types store numeric values. Number objects are created when you assign a value to them.
2. String: Strings in Python are identified as a contiguous set of characters represented in the quotation marks. Python allows either pair of single or double quotes.
3. List: Lists are the most versatile of Python's compound data types. A list contains items separated by commas and enclosed within square brackets (`[]`).
4. Tuples: A tuple is another sequence data type that is similar to the list. A tuple consists of a number of values separated by commas. Unlike lists, however, tuples are enclosed with parentheses.
5. Dictionary: Python's dictionaries are kind of hash-table type. They work like associative arrays or hashes found in Perl and consist of key-value pairs. A dictionary key can be almost any Python type, but are usually numbers or strings. Values, on the other hand, can be any arbitrary Python object. Dictionaries are enclosed within curly braces (`{}`).

2) Briefly explain history of Python

Ans Python is a general-purpose interpreted programming language

\* It was created by "Guido Van Rossum" during 1985-1990

\* Python is named after a TV show called 'Monty Python's Flying Circus' and not after Python, i.e. Snake.

3) Explain all the operators in Python?

Ans The operators in Python are:

- 1) Arithmetic operators
- 2) Assignment operators
- 3) Comparison operators
- 4) Logical operators
- 5) Bit-wise operators
- 6) Identity operators
- 7) Membership operators

4) Explain the features of Python?

- Ans
- 1) Python is a high-level language
  - 2) Python is an interpreted language
  - 3) Python is cross platform language
  - 4) Expressive language
  - 5) Object oriented language
  - 6) Integrated language.

5) Justify why Python is interactive interpreted language.

Ans Python is called an interpreted language because it goes through an interpreter, which turns code you write into the language understood by your computer processor. We can run a code without compiling which is not present as in C language.