# Assingnment

1.what is pythonpath?

PYTHONPATH is an environment variable which the user can set to add additional directories that the user wants Python to add to the sys. path directory list.So, when you import modules in your Python scripts, PYTHONPATH is also checked to see which directories might contain the imported module.

2.what are python modules? Name some commonly used builtin modules in python?

* Long and complex logic in a program is broken into smaller, independent and reusable blocks of instructions usually called a module, a subroutine or function.
* It is designed to perform a specific task that is a part of entire process.
* Python interpreter has a number of built-in functions:
* os module
* random module
* math module
* time module
* sys module
* collections module
* statistics module

3.what are local variables and global variables in python?

Global variables are those which are not defined inside any function and have a global scope whereas local variables are those which are defined inside a function and its scope is limited to that function only.

4.Is Python case sensitive?

Yes, python is a case-sensitive language without a doubt. If we write a variable in a small letter and want to use it further in the program, then use it in the same manner only otherwise it will be considered as you are using a new variable.

5.what is type conversion in python?

Type Conversion is the conversion of object from one data type to another data type. Implicit Type Conversion is automatically performed by the Python interpreter. Python avoids the loss of data in Implicit Type Conversion.

6.Is Indentation required in python?

Indentation is mandatory in python to define the blocks of statements. The number of spaces must be uniform in a block of code. It is preferred to use whitespaces instead of tabs to indent in python.

7.what is the difference between python arrays and lists?

Sr. No

1.List:

* The list can store the value of different types.

Array:

* It can only consist of value of same type.

2.List:

* The list cannot handle the direct arithmetic operations.

Array:

* It can directly handle arithmetic operations.

3.list:

* We need to import the array before work with the array.

Array:

* The lists are the build-in data structure so we don't need to import it.

4.list:

* The lists are less compatible than the array to store the data.

Array:

* An array are much compatible than the list.

5.list:

* It consumes a large memory.

Array:

* It is a more compact in memory size comparatively list.

6.List:

* It is suitable for storing the longer sequence of the data item.

Array:

* It is suitable for storing shorter sequence of data items.

7.list:

* We can print the entire list using explicit looping.

Array:

We can print the entire list without using explicit looping.

8.List:

* It can be nested to contain different types of elements.

Array:

* It must contain either all nested elements of same size.