Q1. What is PYTHONPATH ?

# A.PYTHONPATH is an environment variable which you can set to add a additional directories where Python will look for modules and packages .(Note:For most installations ,you should not set these variables since they are not needed for Python to run .Python knows where to find its standard library)

Q2.What are the Python modules ? Name some commonly used built-in modules in Python?

# A.A Python module is a file containing Python definitions and statements .A module can define functions ,classes and variables. A module can also include runnable code.

## Some commonly used buit-in modules in Python are :

* Os module
* Random module
* Math module
* Time module
* Sys module
* Collections module
* Statistics module

Q3.What are the Local variables and Global variables in Python?

# A.Global Variables:

Variables which are not defined inside any function and have a global scope are called as Global variables.

# Local Variables:

Variables which are defined inside a function and its scope is limited to that function only are called as local variables.

Q4.Is Python case sensitive ?

# A.Yes,Python is a case-sensitive language .If we write a variable in a small letter and want to use it further in the program ,then we need to use it in the same exact manner only otherwise it will be considered as a new variable.

Q5.What is type conversion in Python?

# A.Type conversion is a method of changing an entity or object from one data type to another data type .We have two types conversions namely : Implicit conversion and Explicit conversion

Q6. Is indentation required in Python?

# A.Indentation refers to the spaces at the beginning of a code line.Indentation is mandatory in Python so as to define the block of statements .The number of spaces must be uniform in a block of code.(Note: It is preferred to use whitespaces instead of tabs to indent in Python.

Q7.What is the difference between Python Arrays and Lists?

# A.Python Array :

An array is a vector containing homogenous elements (belonging to the same datatype).

# Python List :

A list in Python is acollection of items which can contain elements of multiple data types ,which may be either numeric, character ,logical values etc.

### The main differences between an array and lists in Python:

* The operation you can perform on them.Arrays are specially optimized for arithematic computations whereas lists are better option for frequent insertion and deletion of the elements.
* Memory consumption :List occupies much more memory as every node defined the list has its own memory set whereas arrays are memory efficient data structures.