1. What is python path?

It is used to set the path for the user-defined modules so that it can be directly imported into a Python program. The PYTHONPATH variable holds a string with the name of various directories that need to be added to the sys. path directory list by Python.

1. What are python modules? Name some commonly used built-in modules in python.

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. Grouping related code into a module makes the code easier to understand and use. It also makes the code logically organized.

The Python interactive shell has a number of built-in functions. They are loaded automatically as a shell starts and are always available, such as print() and input() for I/O, number conversion functions int(), float(), complex(), data type conversions list(), tuple(), set(), etc.

1. 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.

1. Is python case sensitive?

Yes, python is a case-sensitive language because it differentiates the lower case and upper case identifiers.

1. 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. We can convert objects of string type to a numeric value, convert them to various container types, etc. Python primarily provides two types of conversion methods: implicit conversion type and explicit conversion type.

1. Is indentation required in python?

Indentation refers to the spaces at the beginning of a code line. Where in other programming languages the indentation in code is for readability only, the indentation in Python is very important. Python uses indentation to indicate a block of code.

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.

1. What is the difference between python arrays and lists?

List: A list in Python is a collection of items which can contain elements of multiple data types, which may be either numeric, character logical values, etc. Array: An array is a vector containing homogeneous elements i.e. belonging to the same data type.