

ASSIGNMENT-2

1. What is PYTHONPATH?

Ans: 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

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

Ans: A Python module is a file containing Python definitions and statements. A module can define functions, classes, variables. Can also include runnable code. Some commonly used built-in modules are:- print(), input(), int() etc.

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

Ans: 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?

Ans: Yes, Python is 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?

Ans: Type conversion is the conversion of object from one data type to another data type.
ex:- the conversion of an integer value into a floating point value or its textual representation as a string, and vice versa.

6. Is indentation required in python?

Ans: 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?

Ans: An array is a vector containing homogeneous elements i.e. belonging to the same data type. Elements are allocated with contiguous memory locations allowing easy modification, that is, addition, deletion, accessing of elements. In Python, we have to use the array module to declare arrays. If the elements of an array belong to different data types, an exception “Incomplete data types” is thrown. 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. It is an ordered collection supporting negative indexing. A list can be created using [] containing data values. Contents of lists can be easily merged and copied using python’s inbuilt functions.