ASSIGNMENT-1(ANS)

1.Python is a widely used general-purpose,high level programming language.It was created by Guido van Rossum in 1991.It was designed on code readability and its syntax allows programmers to express their concepts in fewer lines of code.Python is a programming language that lets you work quickly and integrate systems more effectively.

2.KEY FEATURES OF PYTHON:

* Simple
* Easy to learn
* Free and open source
* Portable
* Object oriented
* Extensible
* Scalable
* Interpreted

3.Python is called an interpreted language because it goes through an interpreter,which turns the code you write, it converts into the language which can be quickly understood by your computer’s processor.So it is called an interpreted language.

4.Memory management in python involves a private heap containing all Python objects and data structures.The management of this private heap is ensured internally by the Python memory manager. In this way memory was managed in python.

5.PYTHONPATH is an environment variable which you can set to add additional directories where python will look for modules and packages.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.This is called PYTHONPATH.

6.Generators in python are used to create iterators,but with a different approach.Generators are simple functions which return an iterable set of items,one at a time,in a special way.When an iteration is over,a set of item starts using the for statement,the generator is run.

7.Yes,Python have OOPS concepts.Python is an object oriented programming language along with object oriented features such as

* Object
* Class
* Method
* Inheritance
* Polymorphism
* Data Abstraction
* Encapsulation.

8.Yes,Python is a case sensitive language.This means variable and variable are not the same.Always give the identifiers a name that makes sense.Eg:variable-ABC is not same as variable-abc in python.So it is case sensitive.

9.In python,Identifiers are unlimited in length.Limit lines are maximum upto 79 characters.Upto this long an identifier be in python.

10.To find out which directory in python you are currently in,use the getcwd() method.Cwd is for current working directory in python.This returns the path of the current python directory as a string in python.To get it as a bytes object,we use the method getcwdb().