Python Assignment

1] what is Python language?

A] Python is an interpreted, high-level, general purpose Programming language. created by Guido Van Rossum and first released in 1991, Python's design Philosophy emphasizes code readability with its notable use of significant whitespace.

2] what are the key features of Python?

A) 1] easy to Learn and use.

2] expressive Language

3] intrereted Language

4] Cross-Platform Language

5] Free and open Source

6] object oriented Language

7] Extensible

8] Large standard Library.

3) How is Python interpreted language?

A] The terms interpreted or compiled is not a property of the language but a property of the implementation. Python program runs directly from the source code. So python will fall under byte code interpreted. This byte code

can be interpreted ,or JIT compiled

4.] How is memory managed in Python?

A] 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.

5] what is Python Path?

A] Python Path 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

it's standard library.

6] what are the generators in Python?

A] Generators are used to create iterators,

but with a different approch. Generators

are simple functions which return an

iterable set of items, one at a time, in a

special way. when an iteration over a set

or item starts using the for statement, the generator is run.

7] Does Python have oops concepts?

A] python is an object-oriented Programming language along with the object oriented Programming features such as inheritance, polymorphism abstraction, encapsulation.

8] IS Python case sensitive?

A] Python is a case-sensitive language. This means, Variable and variable are not the same. Always give the Identifiers a name that makes sense.

9] How long can an identifier be in Python?

A] Identifiers are unlimited in length. But you'll be violating PEP-8 most likely, which is not really cool. Limit all lines to a maximum of 79 characters.

10] With Python, how do you find out which directory you are currently in?

A] To find out which directory in Python you are currently in use the

get cwd () 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 get cwdb ().