

4.Explain the features of the python language?

Python Features:

Python is a dynamic, high level, free open source and interpreted programming language. It supports object-oriented programming as well as procedural oriented programming.

In Python, we don't need to declare the type of variable because it is a dynamic typed language.

Features in Python:

There are many features in Python, some of which are discussed below –

1.Easy to code:

Python is high level programming language.Python is very easy to learn language as compared to other language like c, c#, java script, java etc.It is very easy to code in python language and anybody can learn python basic in few hours or days.It is also developer-friendly language.

2. Free and Open Source:

Python language is freely available at official website and you can download it from the Google websites.

Since, it is open-source, this means that source code is also available to the public.So you can download it as, use it as well as share it.

3.Object-Oriented Language:

One of the key features of python is Object-Oriented programming.Python supports object oriented language and concepts of classes, objects encapsulation etc.

4. GUI Programming Support:

Graphical Users interfaces can be made using a module such as PyQt5, PyQt4, wxPython or Tk in python.

PyQt5 is the most popular option for creating graphical apps with Python.

5. High-Level Language:

Python is a high-level language.When we write programs in python, we do not need to remember the system architecture, nor do we need to manage the memory.

6.Extensible feature:

Python is a Extensible language.we can write our some python code into c or c++ language and also we can compile that code in c/c++ language.



7. Python is Portable language:

Python language is also a portable language. for example, if we have python code for windows and if we want to run this code on other platform such as Linux, Unix and Mac then we do not need to change it, we can run this code on any platform.

8. Dynamically Typed Language:

Python is dynamically-typed language. That means the type (for example- int, double, long etc) for a variable is decided at run time not in advance. because of this feature we don't need to specify the type of variable.

