Q. What are the feature of Python?

Ans.-

1.SIMPLE AND EASY TO UNDERSTAND-

It is simple and easy to learn and understand with very limited syntax which feels like reading simple english.

2.FREE AND OPEN SOURCE-

Python is developed under an OSI-approved i.e open source license. Hence it is completely free to use. It can be freely modified .It does'nt cost anything to download Python and to include it in our application.

3.IT IS PORTABLE-

Python is portable in the sense that the same code can be used on different platforms. For instance suppose yi=ou write a python code on a Mac the same can be run on Windows and Linux later , we don't have to change it, i.e we don't have to write programs multiple times .

4.OBJECT ORIENTED PROGRAMMING SYSTEM (OOPs)-

One of the critical feature of Python is that it supports both OBJECT-ORIENTED and PROCEDURE ORINTED PROGRAMMING. A programming language is OBJECT- ORIENTED when it focuses on design around data and objects, rather than functions and logics. On The Contrary a language is PROCEDURE-ORIENTED if it focuses more on functions. But python supports both of the programmings.

5.EXTENSIBE-

A programming language is said to be extensible if it can be extended to other languages. Python code can also be written on other languages like C++, making it highly extensible language.

6.IT IS INTERPRETED-

When a programming language is interpreted, it means that the source code is executed line by line, and not all at once. Programming languages like C++, Java are not interpreted, and hence need to be compiled before running. But there is no need to compile python because it is processed at the runtime by interpreter.

7.DYNAMICALLY TYPED-

Many programming languages need to declare the type of variable before runtime. With python t

he type of variable can be decided during runtime. This makes python a dynamically typed language.

8.HIGH LEVEL PROGRAMMING LANGUAGE-

Python is a high- level programming language because programmers do not need to remember the system architecture, nor do the have to manage the memory. This makes it super programmer-friendly and is one of the key feature of python.