**Feature of python:-**

**1.simple and easy to learn:-**

Python is a **simple programming lang**.when we read python program,we can feel like reading english statement.because The syntax are very simple and **33 keywords** are avialble.when compared with other lang. we can write programs with less of lines.Hence more readablity and simplicity.

we can reduce development and cost of the project.

**2.Freeware and Open source:-**

We can use python software without any lience and it is **freeware**.

It's source code is open, so that we can customize based on our requirement.

**3.High level Programming lang:-**

Python was high level programming lang. hence it is programmer friendly lang.Being a programmer we are not required to concentrate low level activities like memory manegement and security etc.

**4.Platform Independent:-**

Once we write a python program it can run on any platform without rewriting once again.Internally PVM(python virtual machine) is responsible to convert into machine understable form.

**5.Portability:-**

Python program are portable that is we can migrate from one platform to another platform very easily.

**6.Dynamically Typed:-**

In python we are not required to declare type of variable,when ever we are assiging the value,based on value,type will be allocated automatically.Hence python is considered as dynamically typed lang.

**7.Both procuder oriented and Object Oriented:-**

Python lang supports both produce oriented(like c++ and perl) and object oriented(like C and Java)fetures.Hence we can get benifits of both like security and reusability etc.

**8.Interpreted and extensive and embedded**:-

**9.extensive lab:-**

python has a rich inbuilt lib. There are 60,000+ lib. are present in python.

being a programmer we can use this lib. directly and we are not responsible to implement the function.

**Limitation of python:-**

1.In the telecome secture and application python was not envoled.

2.In the Banking secture and application python was not envoled.

3.In mobile application also python was not work properly.

**Flavors of python:-**

1.CPython:- It can be used to work C lang. application means python to c.

2.Jython or JPthon:It can be used to work Java lang. application means python to java.

3.IronPython:- Python to .net

4.RubyPython:- Python to Rubu

5.PyPy and AnacondaPython :- useing in datascience so that it is not pvm machine work.JIT is working here.

**Python version:**

python 1.0 introduced in jan 1994

python 2.0 introduced in oct 2000

python 3.0 introduced in dec 2008

**python3:- 3.9.5** python- 2.8.7

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