* memory is a collection of bites-

I Easy or Simple:

Python is easy or simple because it provides the following features.
Which makes python is easy or simple.

Eg:- C lang.	Java	Python.
# include (studio.h) void main() Printf("Hello"); } procedural object program.	class Demo { Public static void main (string args[]) { s.o.Pln("Hello"); } } Object oriented program.	print ("Hello") multi paradigm. or def main (): print ("Hello") or class Demo: def main (): print ("Hello")

i) Python syntax is simple.

ii) Python is user/programmers friendly programming lang, it allows you to write programs using multiple programming paradigms.

iii) Less coding, Python provides large standard libraries which provides predefine code.

iv) Automatic memory management. In appln development memory managed consist of two things.

    a) Allocation of memory.
    b) De-Allocation of memory.

Python.

* In python memory management is automatic; python provides a services called garbage collection.

II. Free & Open source :-
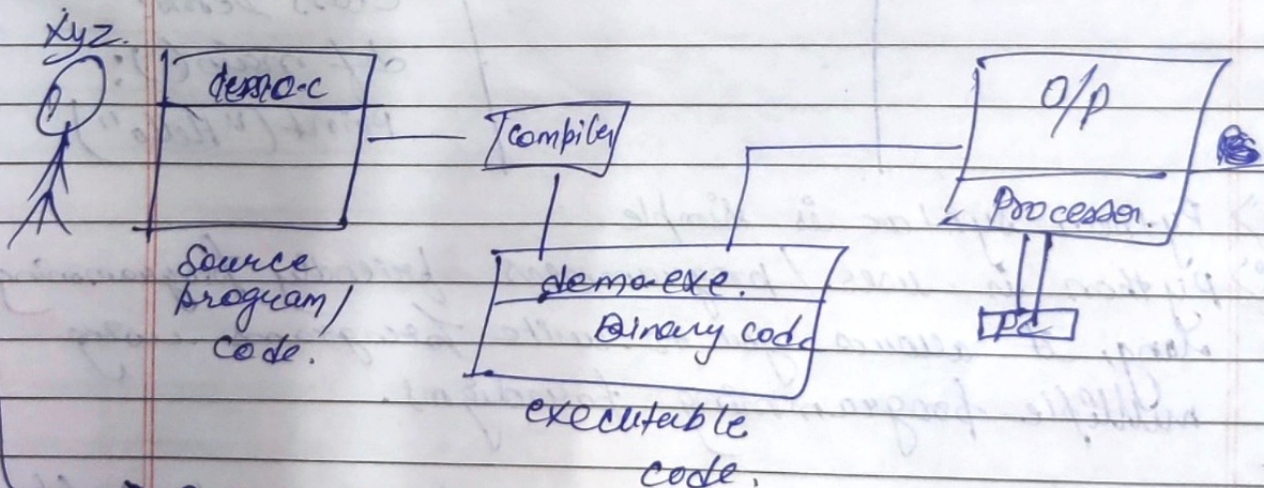
→ Python s/w is free to download.
→ Python s/w can be downloaded from www.python.org.

Open source :-
↳ python lang. is written in "c" lang.

Source program :-
A program written high level programming language is called program.

xyz.

→ Python Software source code is given to public. if source code is given to public, it can modified & develop new languages, frameworks.

* numpy → labraries (which contein no of package)
  numerical python.
* django → libraries for web appl.

II.) Large Standard libraries :-

Q:- ? Python provides large number of libraries.
A library is predefined program, with pre-
written functionality. Libraries makes applⁿ
development easy.

→ Python libraries are available in website or
respository called, [www.(pypi).org]

Python package index.

→ Python labraries are divided into two :-
i) Module.
ii) Package.

- A module is python program.
- A collection of module is called package.
→ Os.

IV.) Platform Independent :-

Programming language are two types :-
1) Platform dependent lang.
2) Platform Independent lang.

• Platform :-
→ Platform is s/w, which provides development
environment and execution environment. Operating
System is called platform.

→ Operating system acts as an interface b/w s/w
and h/w.