** whatever the error comes while compile time i.e h/n ay
syntax error.

* logical Error rectified by programmer.

# Object oriented programming.

⇒ Object oriented is not lang, it is programming paradigm which defines set of rules & regulations for writing prog. All modern lang. uses OOP for devloping applications or programs.

→ it also supports other programming paradigm.
→ multiples

## # High level :-
Python is high level programming lang. & high level programming language is in simple english

## # Portable :-
Portability allows developing & running python prog. on any device or h/w architecture.

## # Embeddable & Extensible :-
• using python code inside other programming lang. is called embeddable.

• using other languages

## # Robust :-
- Robust means strong (strongly type.)
- Python is very very strong in error checking.
- Python provides an exception handling, using which a program can handle runtime error to avoid abnormal termination program.

1

Python.org.

→ Click Downloads.
→ select D/w for windows.
→ select install now or customised installation.
→ select both checkbox.
→ yes. (installing)
→ clct on close after installation.

① How we neill verify python S/w installed or not ?
AB → open cmd prompt.
    → type → python -- version.
       ↳ Python version should be latest - 3.12.0.

② Python Software provides.
→ Editor / IDE → IDLE (integrated Development
          Learning environment) is a code editor
          provides by python software.

③ Python Virtual Machine (PVM)
④ Python shell.
⑤ standard libraries or lang. related libraries,
    But appln specific libraries does not comes
    with python software.
⑥ Tools (python library installer (PIP), python
      Debugger. ----)


IDE'S
① Pycharm
② spyder
③ VS code
④ google collab
⑤ jupiter Notebook.

# Python Distributions :

Python distribution python S/w bundle. which consist of
    i) python software.
    ii) Appln specific libraries.
    iii) Editors or IDE.

One of the famous distribution in python is Anaconda python.

# Python Implementations :

- Iron python
- Jython
- Pypy
- Stackless python

# Python working mode :-

Python working mode are two types :-
    ① interactive mode.
    ② scripting mode. / Programming mode.