

Installation of Python Software:

Download the required python latest software version from the following website

https://www.python.org/downloads/

- Select windows option and click download button
- > **Double click** on the downloaded Installer file and install it by following steps.
- Latest Python 3 release is : 3.X.Y version

Adding Python PATH Environment Variables:

After downloading and installing Python Software, by default it is installing in C-Drive likebelow,

PATH : C:\Users\Lenovo\AppData\Local\Programs\Python\Python311

> It is required for **adding** Python **Interpreter** to the Environment variable section.

PATH : C:\Users\Lenovo\AppData\Local\Programs\Python\Python311\Scripts

- It is required for adding Python PIP command to the Environment variable section.
- Using PIP we can install Third party Python Packages/Modules.
 C:\Users\Lenovo> pip install required_module_Name

Development of Python application or Programs

- We can develop python applications or programs in 2 modes. They are,
- 1. Interactive mode
- 2. Batch Mode

<u>1.</u> Interactive mode

- Interactive mode is a command line shell.
- In command line shell if we write any Python statement immediatly that statement willexecute and gives the result.



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applications.
```

> To overcome this problem then we can use Batch Mode.

2. Batch mode

In Batch mode we write group of python statements in any one of the Editors or IDE's.

Different Editors are :

- 1. Notepad
- 2. Notepad++
- 3. EditPlus
- 4. nano
- 5. IDLE



After writing the group of Python statements in anyone of the Editor or IDE , we save the Python file with extension .py

For example : FileName.py

- After developing the .py files , we submit those files to the python Interpretor directly.
- > Batch mode is used for developent of business applications.



For Example :

Step1: Open the Notepad editor

Step2: Write the following code

i = 10

j = 20

print(i + j)

Step3: Save the above file with Basic.py in any one location.

Stem4: Open the command prompt upto python file storing location (Basic.py) and execute python file.

D:\Python_Programs> python Basic.py------ >> click enter

Output :

300

100

Note : IDLE --->> Integrated Development Language Environment

- When ever we install python software in windows os along with the python softwareIDLE or python GUI editor will be installed.
- In IDLE editor we can develop the Python programs in interactive and batch mode.
- After developing the python application in IDLE editor directly we can run that pythonby using shortcut key(F5).
- Within the IDLE editor we can perform the debugging operation of the pythonapplications.

How to Create a python program using IDLE tool?

Open **IDLE** tool --->> Click on **File** menu --->> Click on **New File Ctrl + N ----** >> Then it will open a python Notepad prompt --->> Now create a python program.



Then Cleck on File menu-----> Click on Save Ctrl + S

---->> Then it will open Python software location prompt--- >> Choose your required folder

wherever you want to save ---->> Give file any file name and save with .py extension like **Sample.py**

How to Execute a python program using IDLE tool?

Click on **Run** menu --->> Click on **Run Module F5----- >>** Now output will show on IDLE shell.