Teach Yourself Python Fast Offline

+ Free downloadable Resources

Step-by-step guide to download Python and Set up your free VS Code environment:

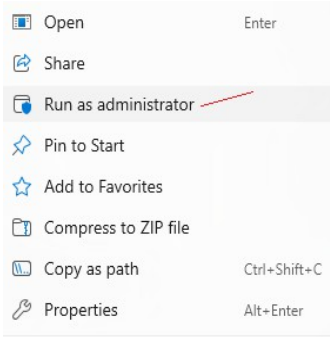
Download and Install VS Code

Go to code.visualstudio.com and click the "Download" button for your operating system (Windows, macOS, or Linux).
Install VS Code: Open the downloaded file and follow the installation instructions.

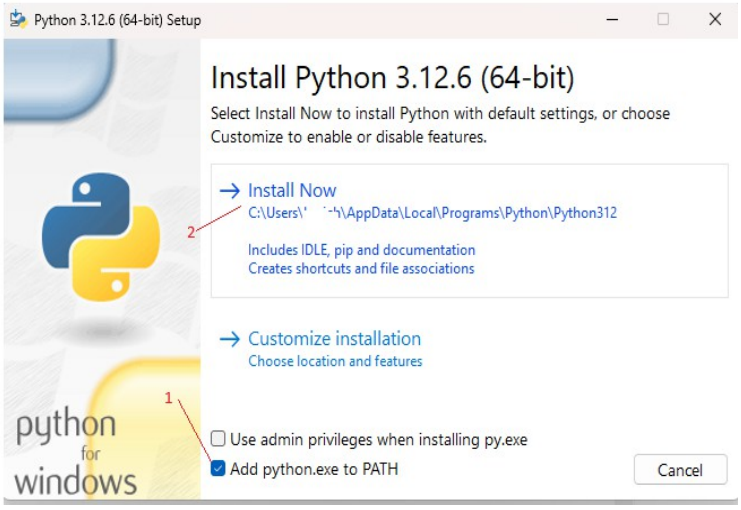
Download and Pytho

Go to: python.org and download the latest version of Python.

Right click on the **downloaded file** to Run as administrator (as shown below):



Check the box, **Add python.exe to PATH,** then **Install Now** to run it (as shown below):

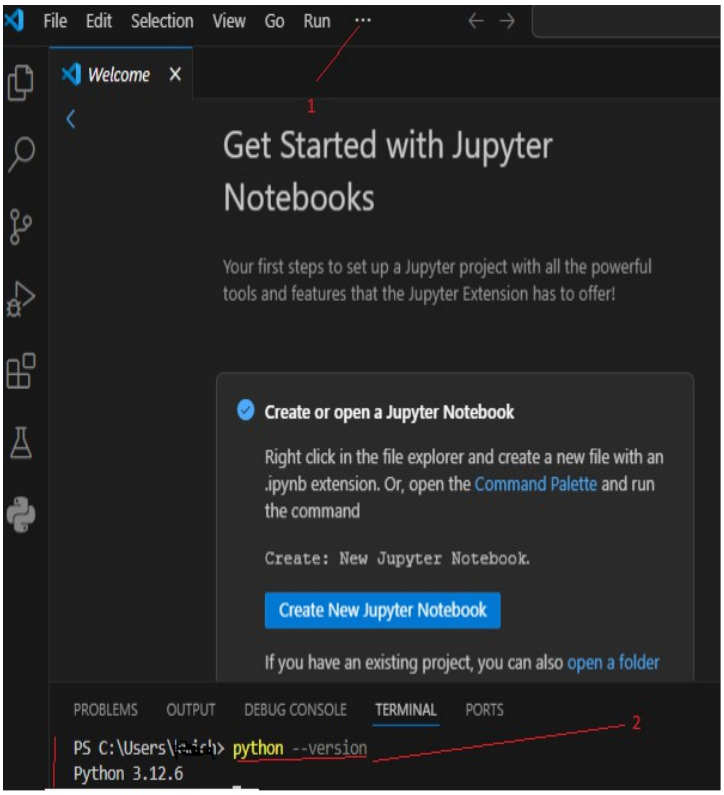


Open VS Code:

Launch VS Code: Open the application from your desktop or applications folder.

1.Click **View** to open the **Terminal** inside VS code;

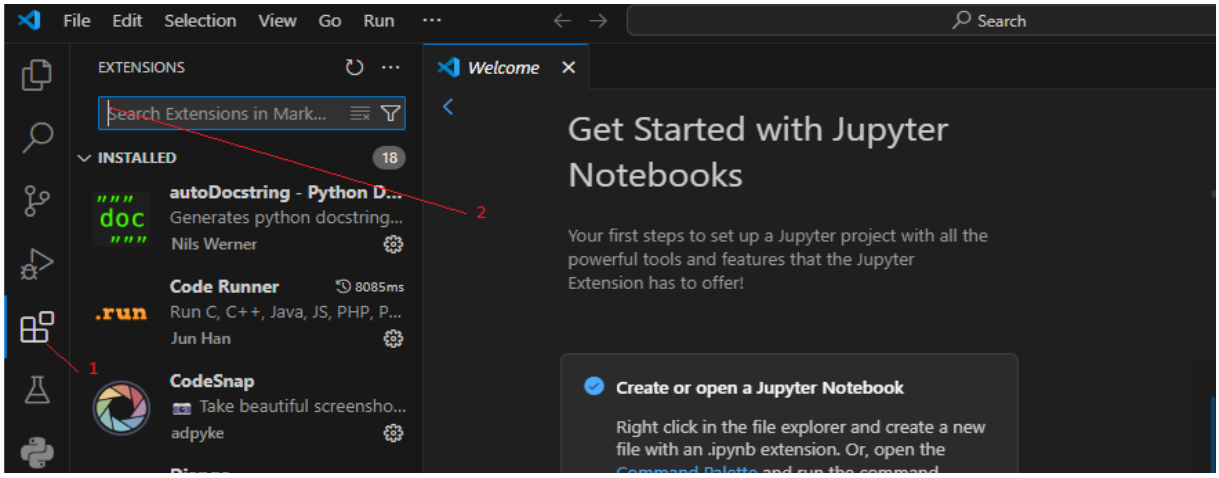
2.To Verify Python Installation: In the Termianal, type `python --version` and press Enter. You should see the installed Python version 3.12.6 (latest):



Install Python & Jupyter Extensions:

1. **Open Extensions View**: Click on the Extensions icon in the Activity Bar on the side (or press `Ctrl + Shift + X`)
2. **Search for Python**: Type “Python” in the search bar

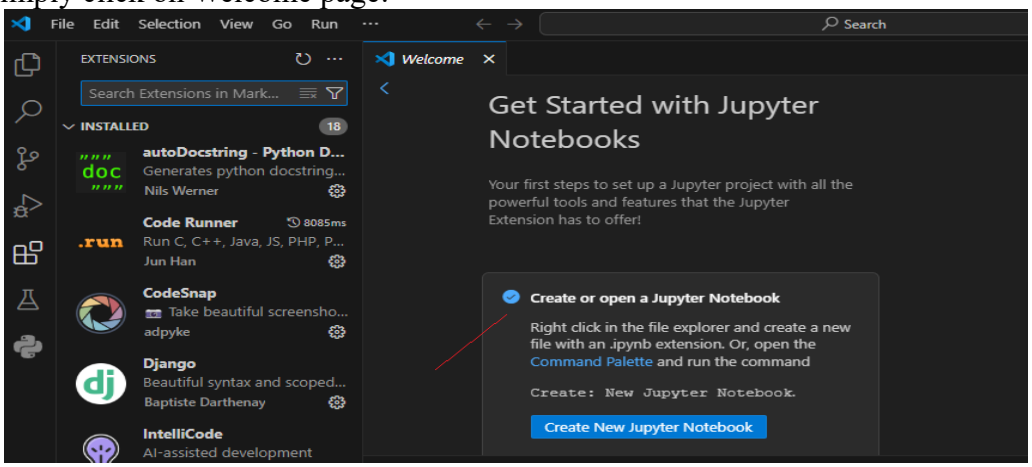
As shown below:



- **Install Python Extension**: Type Python, and Click on Python extension published by Microsoft and hit "Install."
- **Install Jupyter Extension**: Type "Jupyter" in the search bar, and Click on the extension Jupyter extension published by Microsoft and hit "Install."

Create a New Jupyter Notebook

Open Command Palette: Press `Ctrl + Shift + P`.
Select "Jupyter: Create New Blank Notebook": This will create a new Jupyter notebook file (`.ipynb`).
Or simply click on Welcome page:



To Save the Notebook: Click "File" > "Save As," and name your file `.ipynb`

Alternatively, To Create a New Python File

Open a New File: Click on "File" > "New File" or press `Ctrl + N`.
Save the File: Click "File" > "Save As," name your file with a `.py` extension (e.g., `hello.py`).

Write Your First Python Code

Type the Code: In your new file, write the following code:

```
python
Copy code
print("Hello, World!")
```

To Run Your Python Code

Open the Integrated Terminal: Click on "View" > "Terminal" or press `Ctrl + ` (backtick).
Run the Code: Type `python hello.py` and press Enter. You should see "Hello, World!" printed in the terminal.

Free Python Resources:

Automate the Boring Stuff with Python

- Book & Online Course
- A practical book that teaches Python with real-world projects.

Python Cheat Sheet

- Python Cheat Sheet
- A concise reference for Python syntax and common functions.

Comment:

If you missed the option to **Add Python.exe to PATH** during Python installation, the following steps can help you add Python to your PATH:

For Windows

Find the Python Installation Path:

- Typically, Python is installed in a directory like `C:\Users\<YourUsername>\AppData\Local\Programs\Python\Python<Version>` (replace `<YourUsername>` and `<Version>` with your actual username and Python version).

Copy the Path:

- Copy the path to the folder where Python is installed (e.g., `C:\Users\<YourUsername>\AppData\Local\Programs\Python\Python<Version>`).
- Also, make sure to copy the path to the `Scripts` folder inside this directory (e.g., `C:\Users\<YourUsername>\AppData\Local\Programs\Python\Python<Version>\Scripts`).

Add Python to PATH:

- Right-click on the **Start** menu and select **System**.

- Click on **Advanced system settings**.
- In the System Properties window, click the **Environment Variables** button.
- In the Environment Variables window, find the **Path** variable in the **System variables** section and select it, then click **Edit**.
- Click **New** and paste the Python installation path you copied earlier.
- Do the same for the `Scripts` folder path.
- Click **OK** to close all windows.

Verify:

- Open a new Command Prompt and type `python --version` to check if Python is now recognized.

For macOS/Linux

Find the Python Installation Path:

- Open Terminal and type:

```
bash
Copy code
which python3
```

- This command will show you the path where Python is installed.

Add to PATH:

- Open your terminal and edit your shell configuration file (e.g., `.bashrc`, `.bash_profile`, or `.zshrc` depending on your shell). You can open it with a text editor, like:

```
bash
Copy code
nano ~/.bashrc
```

- Add the following line at the end, replacing `<path_to_python>` with your actual path:

```
bash
Copy code
export PATH="<path_to_python>:$PATH"
```

- Save the file and exit the text editor (in nano, press `CTRL + X`, then `Y`, and `Enter`).

Refresh Your Terminal:

- Run:

```
bash
Copy code
source ~/.bashrc
```

- Or close and reopen your terminal.

Verify:

- Type `python3 --version` to confirm that Python is recognized.