# Python Installation and Setup Guide on Windows

## **∞** Reference Links

- **GitHub Learning Repository** (Optional): https://github.com/karthickag04/learn\_python
- Official Python Website: https://www.python.org/

# **≛** Step 1: Download Python

- 1. Open your browser and search for: python
- 2. Click the official Python website link: <a href="https://www.python.org/">https://www.python.org/</a>
- Navigate to the **Downloads** section and download the **latest Python version for Windows** (e.g., Python 3.13.3)

# □□ Step 2: Install Python

- 1. Go to your **Downloads** folder.
- 2. Find the downloaded file (e.g., python-3.13.3.exe) and double-click it or Right-click  $\rightarrow$  Run as administrator.
- 3. In the installer:
  - o ✓ Click on "Customize installation"
  - ✓ Select all checkboxes
  - o ✓ Ensure "Add Python to environment variables" is checked
  - o ✓ Check "Install Python for all users"
- 4. Click **Next** and then click **Install** to complete the setup.

# ☐ Step 3: Verify Installation

#### 1. Open Command Prompt

• Press Windows Key, search for cmd, and open Command Prompt

## 2. Run Python

Type the following and press Enter:

```
python
```

#### Expected output:

```
C:\Users\DELL>python
Python 3.13.3 (tags/v3.13.3:6280bb5, Apr 8 2025, 14:47:33) [MSC v.1943 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

## 3. Try a Simple Python Command

```
Type:
```

```
>>> 1 + 2
```

Expected result:

3

### 4. Exit Python Shell

#### Type:

```
>>> exit()
```

This will return you to the normal command prompt:

C:\Users\DELL>

You can always re-enter the Python shell by typing python again.

# X If Python Is Not Recognized in CMD

#### You may see:

```
'python' is not recognized as an internal or external command...
```

## **Step 1: Locate Python Installation**

Check for Python installation in any of these paths:

- C:\Program Files\Python3x
- C:\Users\<YourUsername>\AppData\Local\Programs\Python\Python3x
- C:\Users\<YourUsername>\AppData\Roaming\Python\Python3x

#### Note down:

- Python executable path (e.g.,
  - C:\Users\DELL\AppData\Local\Programs\Python\Python3x)
- Scripts path (e.g.,

C:\Users\DELL\AppData\Local\Programs\Python\Python3x\Scripts)

## **Step 2: Add Paths to Environment Variables**

- 1. Press Windows Key → search Environment Variables
- 2. Click "Edit the system environment variables"
- 3. In the System Properties window, click "Environment Variables"
- 4. Under System variables, select Path → click Edit
- 5. Click **New** and paste:
  - Python path
    - C:\Users\DELL\AppData\Local\Programs\Python\Python3x
  - o Scripts path
    - C:\Users\DELL\AppData\Local\Programs\Python\Python3x\Scripts
- 6. Click **OK** to close all windows

## Step 3: Reopen CMD and Test Again

- Close the existing Command Prompt and open a **new one**
- Type:

python

Then test again with:

```
>>> 5 * 10 50
```

If you see results, Python is now installed and recognized system-wide.

# **Summary**

- Download from: <a href="https://www.python.org/">https://www.python.org/</a>
- Use **Custom Installation** with all options enabled
- Ensure Environment Variables are set
- Use CMD to verify Python with basic math
- Troubleshoot with environment path if Python is not recognized

# **★** PyCharm & Visual Studio Code Installation Guide (Windows)

# **Part 1: Install PyCharm Community Edition**

#### **∞** Download Link

☐ https://www.jetbrains.com/pycharm/download/

#### ☐ Installation Steps

- 1. Visit the above link and click on the "**Download**" button under **Community Edition** (Free and open-source).
- 2. Once the .exe file is downloaded (e.g., pycharm-community-2024.1.exe), go to your **Downloads** folder and double-click the installer.
- 3. In the setup wizard:
  - Click Next
  - o Choose installation path (default is fine)
  - Click Next
- 4. In the next screen:
- 5. Click **Next** and then **Install**
- 6. After installation, click **Finish** (you may also check **''Run PyCharm Community Edition''**).

#### ☐ First Launch

- 1. On first launch, choose "Do not import settings"
- 2. Wait for PyCharm to initialize
- 3. You're now ready to create a new Python project or open an existing one.

# **□** Part 2: Install Visual Studio Code (VS Code)

#### **∞** Download Link

☐ https://code.visualstudio.com/

### ☐ Installation Steps

- 1. Visit the above link and click "Download for Windows"
- 2. Open the downloaded installer (e.g., VSCodeUserSetup-x64-1.89.0.exe)
- 3. Go through the setup wizard:
  - o Click Next
  - o Accept the agreement and click Next
  - o Choose installation location (default is fine), then click Next
- 4. **IMPORTANT:** On the "Select Additional Tasks" screen:

  - Some of the or of th
- 5. Click Next, then Install
- 6. Once installation is done, click Finish and launch VS Code

## **♥** First Launch – Install Python Extension for VSCODE

- 1. Open VS Code
- 2. Click the **Extensions icon** (square icon on left bar)
- 3. Search for "Python" by Microsoft
- 4. Click Install

VS Code is now ready for Python development.