Great question — to **completely and cleanly remove Python 3.12 (or any old version)** from your system (including `pip` , registry entries, and environment paths), follow the steps below based on your OS:

⬛ For Windows: Complete Python Uninstallation

⬛ Step 1: Use the Windows Uninstaller

1. Open **Control Panel → Programs → Programs and Features**
2. Find **Python 3.12.X** in the list
3. Click **Uninstall**

This removes the bulk of the files, but not everything.

⬛ Step 2: Manually Delete Remaining Files

⬛ A. Remove leftover folders:

Delete these folders if they exist:

```
C:\Users\<YourUsername>\AppData\Local\Programs\Python
C:\Users\<YourUsername>\AppData\Local\Programs\Python\Python312
C:\Users\<YourUsername>\AppData\Roaming\Python
C:\Users\<YourUsername>\AppData\Local\pip
```

> ⬛ You can paste `%LocalAppData%` or `%AppData%` into File Explorer's address bar to open those locations quickly.

⬛ Step 3: Clean Environment Variables (PATH)

1. Press **Windows + S** → Search for **Environment Variables**

2. Click **"Edit the system environment variables"**

3. In the System Properties window, click **Environment Variables**

4. Under **"System variables"** or **"User variables"**, find `Path`

5. Look for entries like:

   ```
   C:\Users\<YourUsername>\AppData\Local\Programs\Python\Python312\
   C:\Users\<YourUsername>\AppData\Local\Programs\Python\Python312\Scripts\
   ```

6. ⬛ Remove them

Also, if you see a variable named `PYTHONPATH` , delete it too (if it's related to 3.12).

⬛ Step 4: Confirm Removal

In a **new terminal**, check:

```
python --version
pip --version
```

If Python is fully removed, these commands should show an error like:

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

⬛ Step 5: Install New Python Version

- Go to https://www.python.org/downloads/

- Install the latest version

- **Check these boxes during installation**:

  - ✔ Add Python to PATH
  - ✔ Install `pip`

Let me know if you're on **Linux or macOS**, and I'll give the steps for that too.

Would you like a cleanup script (for advanced users) to delete old Python folders automatically?