BLURRING OF AN IMAGE USING COMPUTER VISION

ENVIRONMENTAL SET-UP:

Installing Python: We can download it from
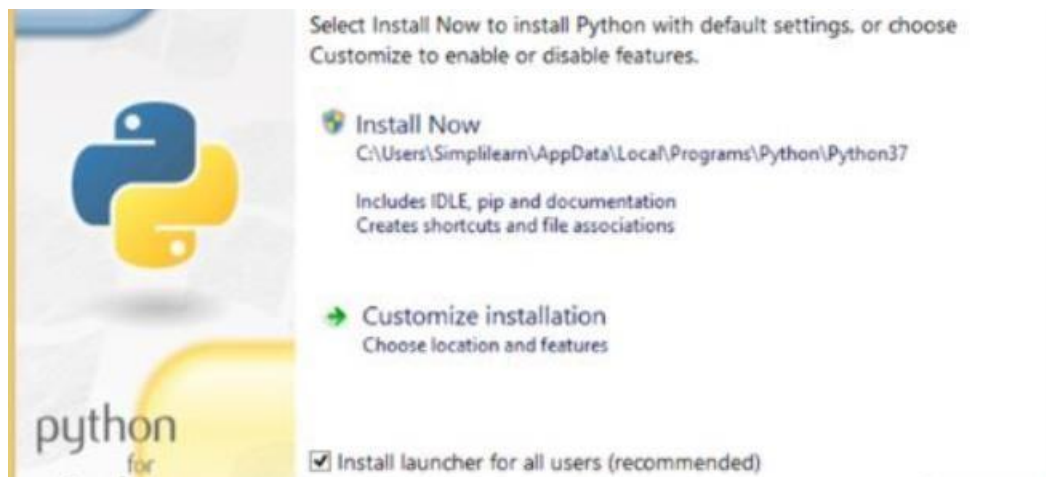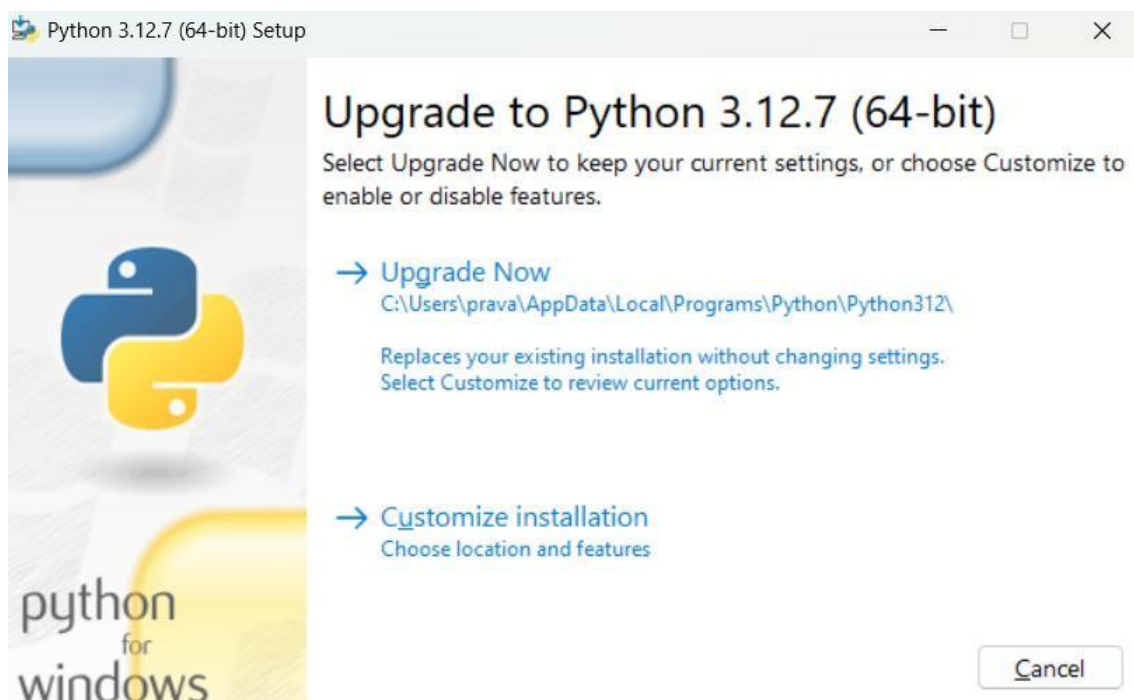https://www.python.org/downloads/
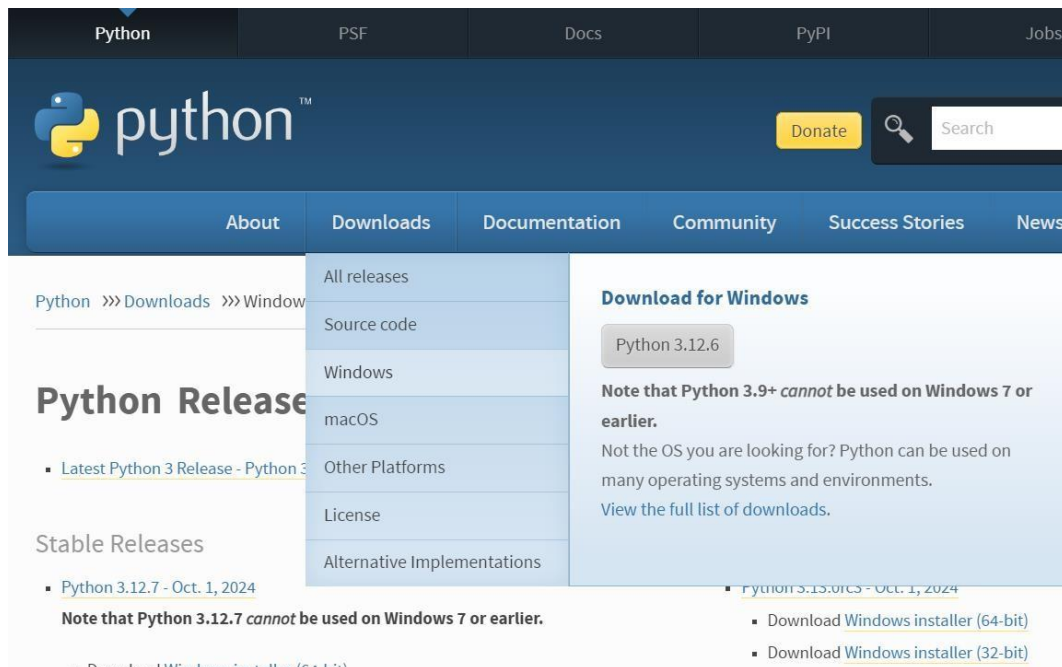
For a **64-bit** version of Windows, download the **Windows installer (64-bit)**.

If we wanted to save the installation file in a different location, click on Customize installation; otherwise, continue with Install Now.

Select Install Now to install Python with default settings, or choose Customize to enable or disable features.

Install Now
C:\Users\Simplilearn\AppData\Local\Programs\Python\Python37

Includes IDLE, pip and documentation
Creates shortcuts and file associations

Customize installation
Choose location and features

☑ Install launcher for all users (recommended)

If already installed and wanted to upgrade the version we can choose upgrade now.

Python 3.12.7 (64-bit) Setup   —   □   ✕

Upgrade to Python 3.12.7 (64-bit)

Select Upgrade Now to keep your current settings, or choose Customize to enable or disable features.

→ Upgrade Now
C:\Users\prava\AppData\Local\Programs\Python\Python312\

Replaces your existing installation without changing settings.
Select Customize to review current options.

→ Customize installation
Choose location and features

Cancel

Once the installation is complete, the below pop-up box will appear: Setup was successful.
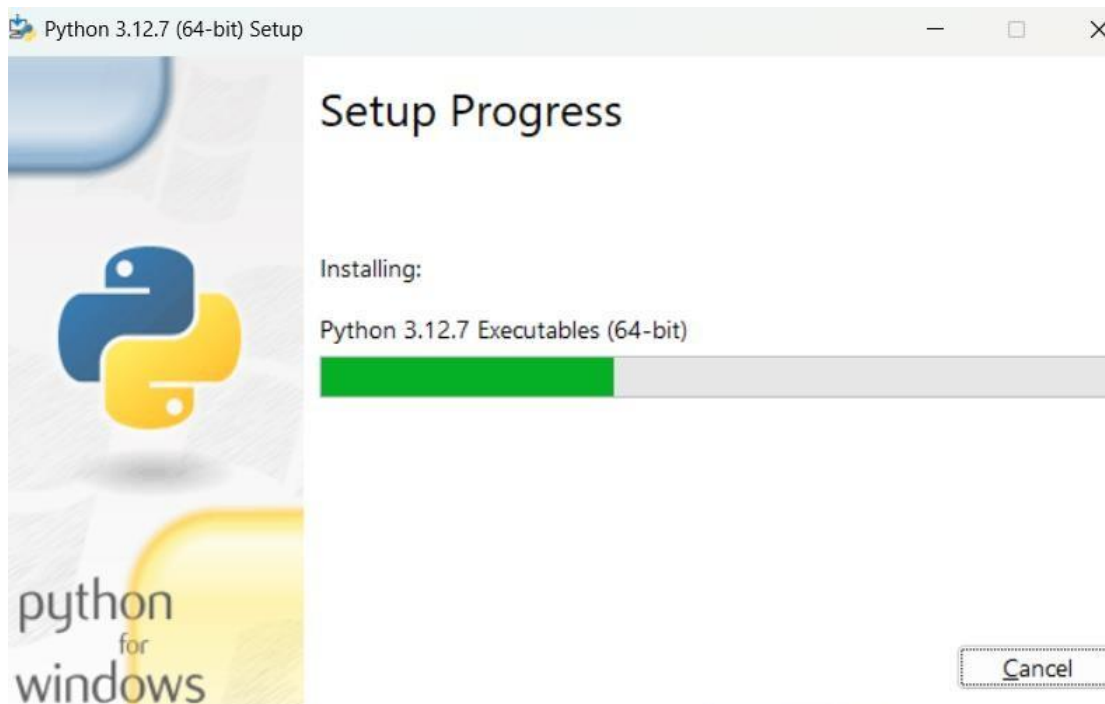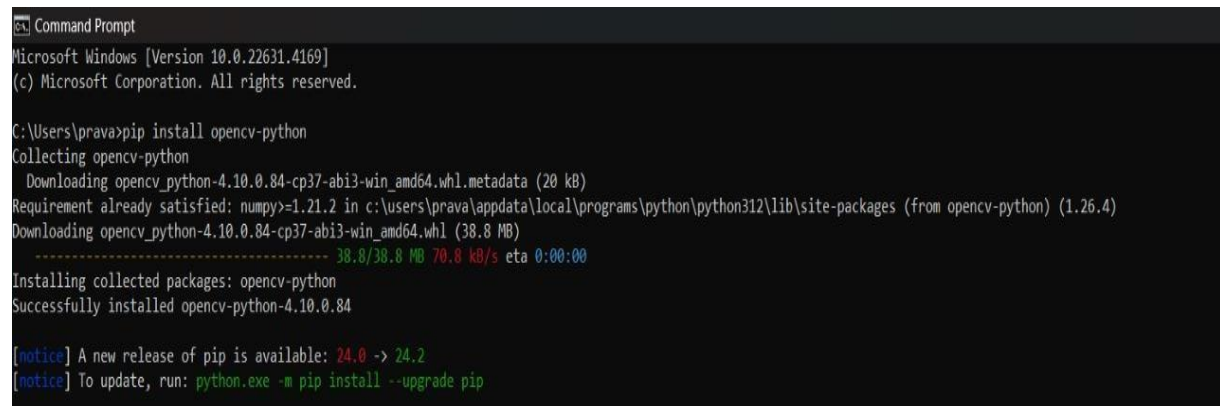

If the installation is successful it shows that the setup was successful.
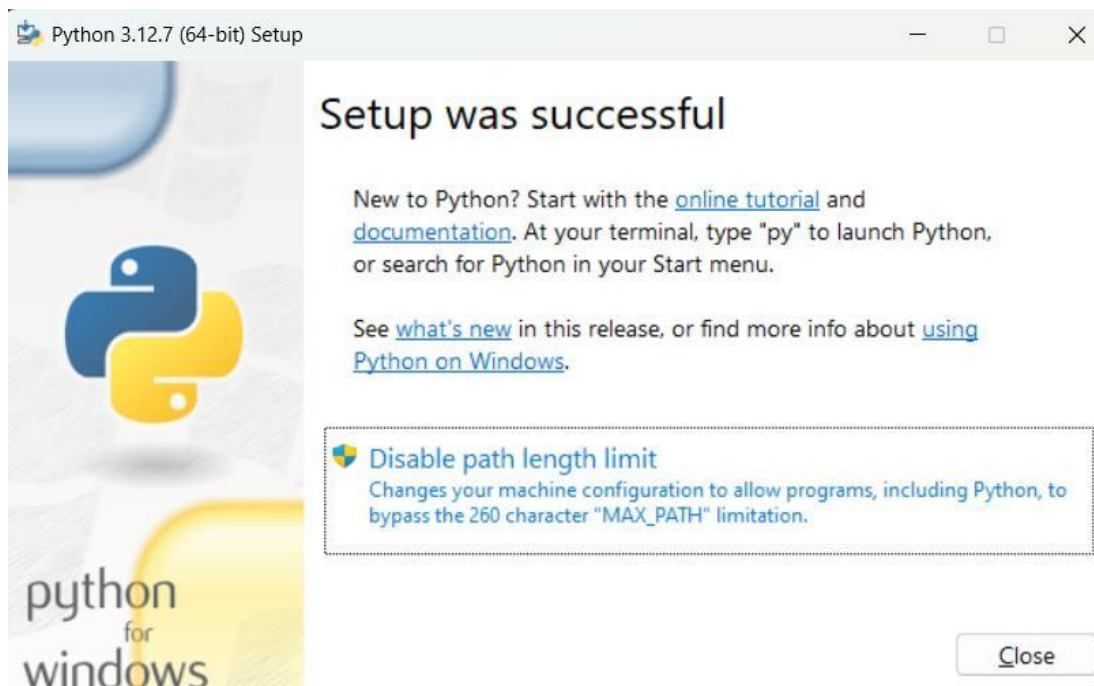
Installing OpenCV: We can install the OpenCV library using pip. Open the command line (Command Prompt) and run the command.
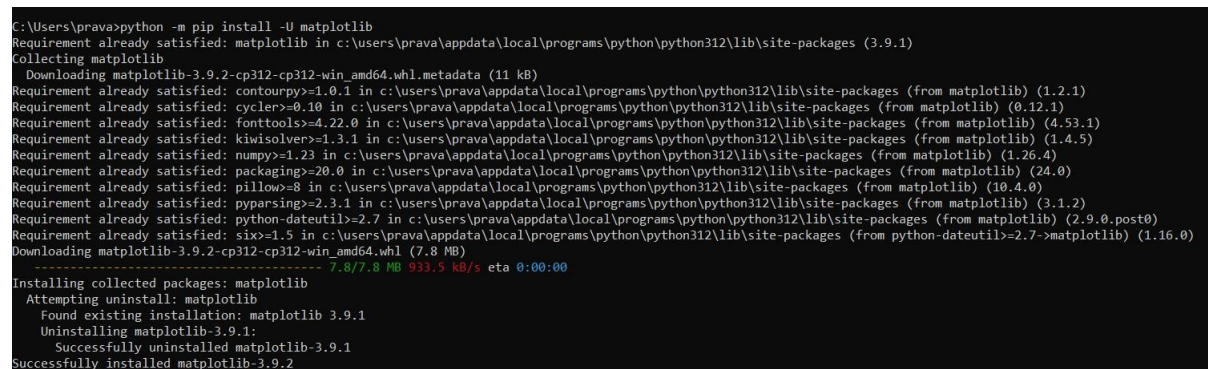

Then it will be displayed as:

The above steps ensure that Python and OpenCV are set up correctly for the project. We have to ensure all necessary libraries are installed before starting the project.

Installing Matplotlib: We can install matplotlib using pip as shown below.

Installing VSCode:

Initially, Download VS Code, go to https://code.visualstudio.com/ and click Download for Windows.

Open the downloaded .exe file and follow the installation prompts. Check the box that says "Add to PATH" (so you can use VS Code from the terminal). We can also select "Create a desktop shortcut" if we want. Click Install and wait for the process to finish. Once the installation is complete, click Finish to open VS Code.