# ****Installation of Python****

## Step 1: Python Download:

* Visit the official Python website: <https://www.python.org/>.
* Navigate to the "Downloads" section.
* Choose the version suitable for your operating system (Windows, macOS, or Linux).
* Click the "Download" button.

## Step 2: Running the Installer:

* Locate the downloaded installer in your system's "Downloads" folder.
* Double-click the installer to begin the installation process.
* Ensure that you check the "Add Python to PATH" option before proceeding.

## Step 3: Customizing Installation:

* Choose **"Customize installation"** for advanced users or select **"Install Now"** for a default setup.
* If you select **"Customize installation,"** you can add optional features such as documentation, pip, and more.

## Step 4: Verifying Installation:

* Open a terminal or command prompt.
* Type **`python --version`** to confirm the installation.
* Optionally, type **`pip --version`** to check if pip is installed.

## Step 5: Setting up Python Environment (Optional):

You can create a virtual environment for your projects using the following command:

* `python -m venv <environment\_name>`

Activate the environment:

* - On Windows: `<environment\_name>\Scripts\activate`
* - On macOS/Linux: `source <environment\_name>/bin/activate`