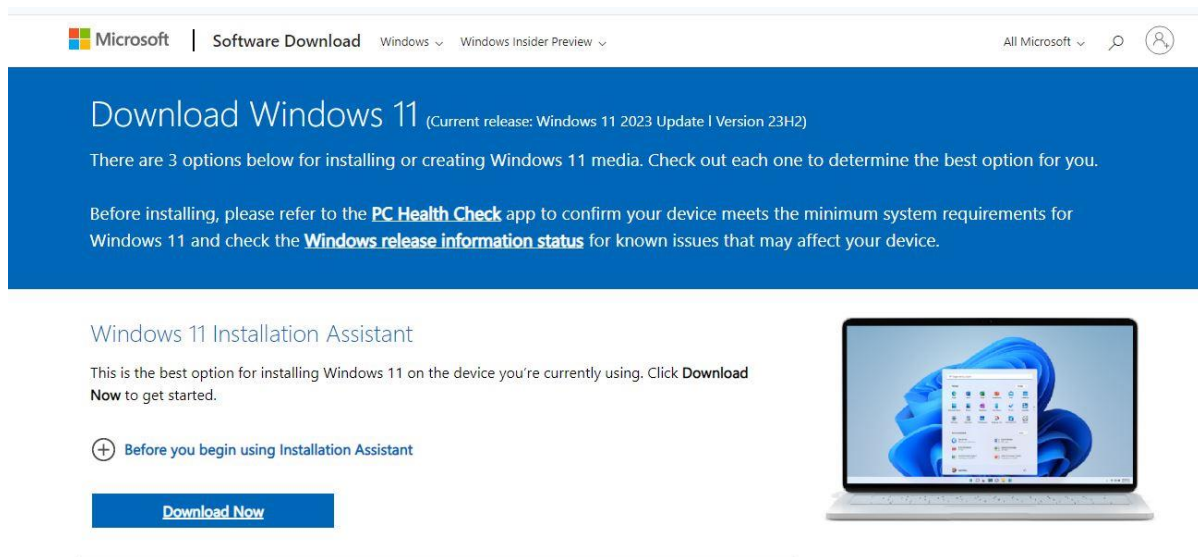# Setting Up Your Developer Environment

1. Choose Your Operating System (OS)
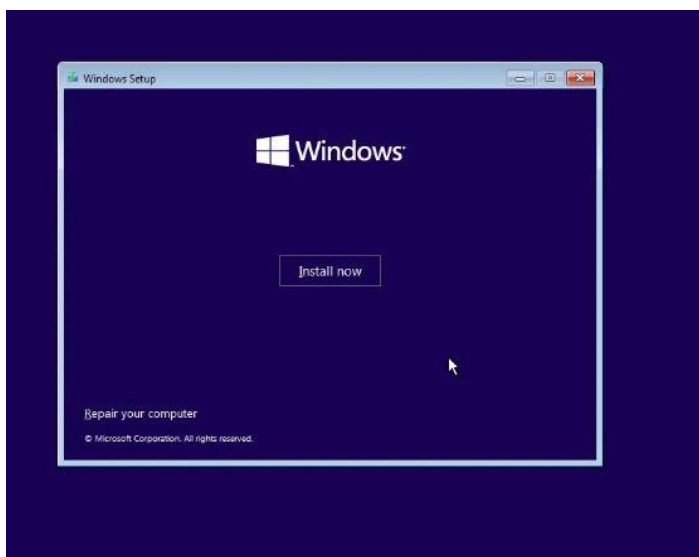
Chosen OS: Windows 11
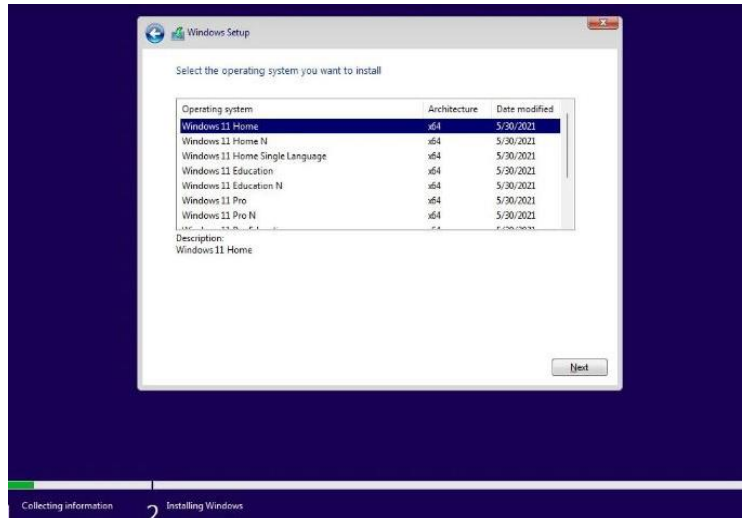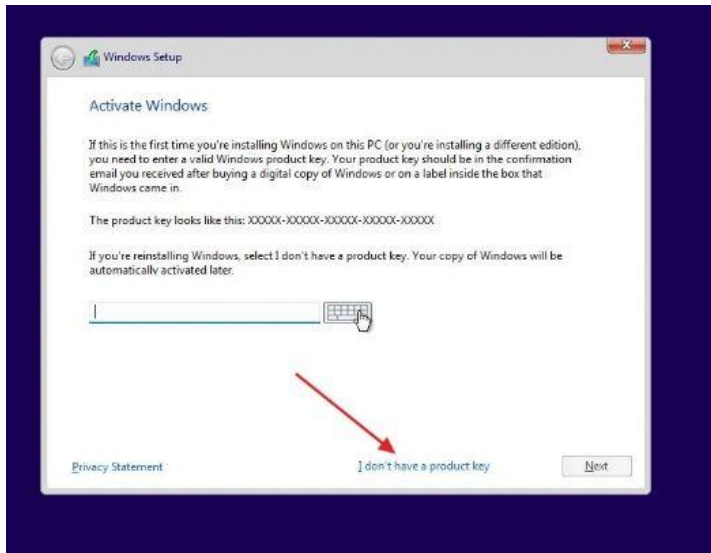
Steps to Download and Install Windows 11

i. Go to the Windows 11 download page https://www.microsoft.com/software-download/windows11

ii. Click "Download Now" to get the Windows 11 Installation Assistant.
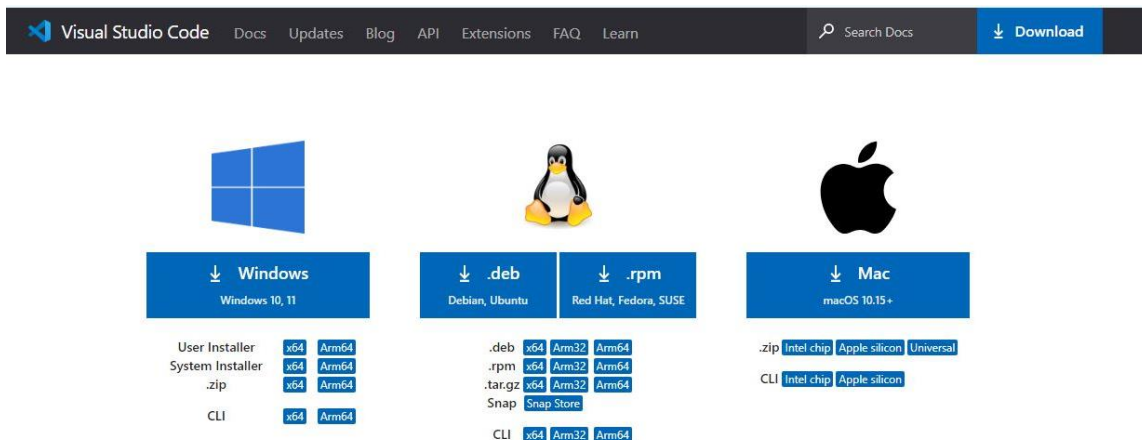iii. Open the downloaded file and follow the instructions to install Windows 11.

2. Install a Text Editor or IDE

IDE Chosen: Visual Studio Code

Steps to Download and Install Visual Studio Code

    i.   Go to the Visual Studio Code download page (https://code.visualstudio.com/Download).

    ii.   Choose the Windows version or what suits you OS and click download.
    iii.   Run the installer file and follow the instructions.
    iv.   Open Visual Studio Code when the installation is finished.

3. Set Up Version Control System

Tool Chosen: Git and GitHub

Steps to Install Git:

i.   Go to the Git download page https://www.git-scm.com/download/win
ii. Download the Git installer for Windows.
iii. Open the installer and follow the instructions.

Steps to Create a GitHub Account

1) Go to the GitHub sign-up page (https://github.com).
2) Fill in the details to create a new account.

Steps to Start a Git Repository and Make Your First Commit

i.   Open Git Bash on your computer.
ii. Go to your project folder using the `cd` command.
iii. Start a new Git repository:

```
git init
```
`

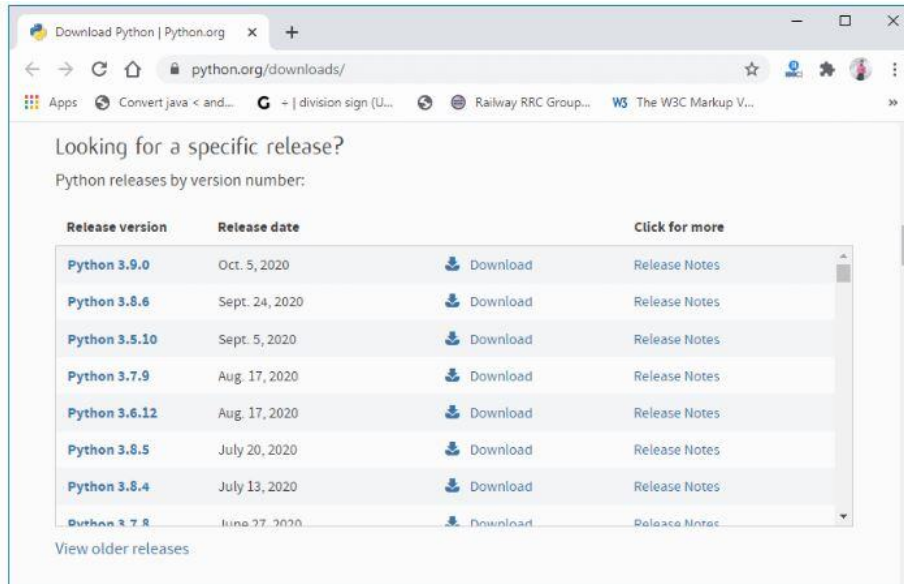iv. Add your project files to the repository:

```
git add .
```

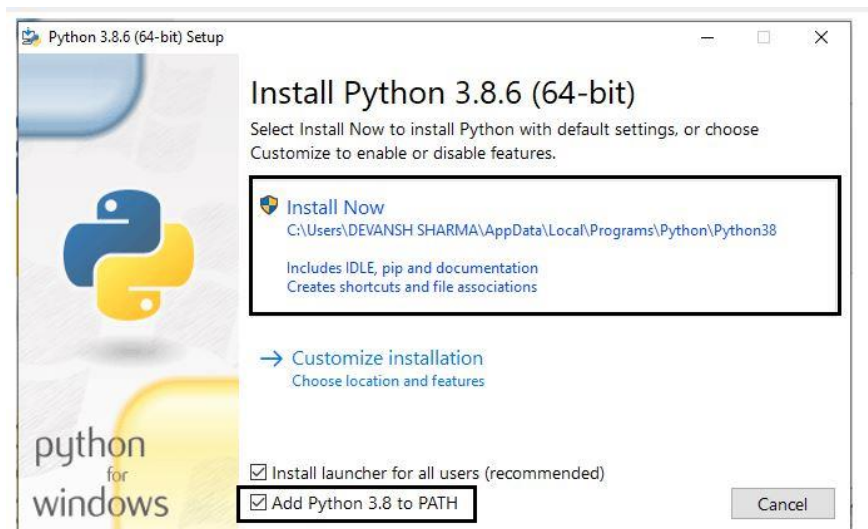v.   Save the changes:

```
git commit -m "Initial commit"
```

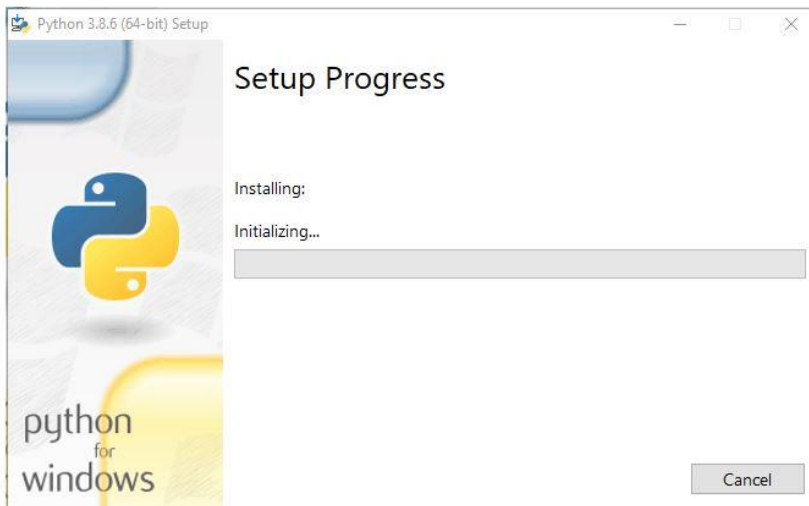### 4. Install Necessary Programming Languages and Runtimes

Steps to Download and Install Python:

    i.   Go to the Python download page(https://www.python.org/downloads/).

   ii.   Download the latest version of Python for Windows (my OS)
  iii.   Open the installer and make sure to check "Add Python to PATH" before installing.

iv. Verify the installation by opening Command Prompt and typing:

5. Install Package Managers

Package Manager: pip (comes with Python)-pip is installed with Python.

6. Configure a Database (MySQL)

Steps to Download and Install MySQL:

   i.   Go to the MySQL Installer page :
          https://dev.mysql.com/downloads/windows/installer/5.7.html
  ii.   Download the MySQL Installer for Windows (my OS)
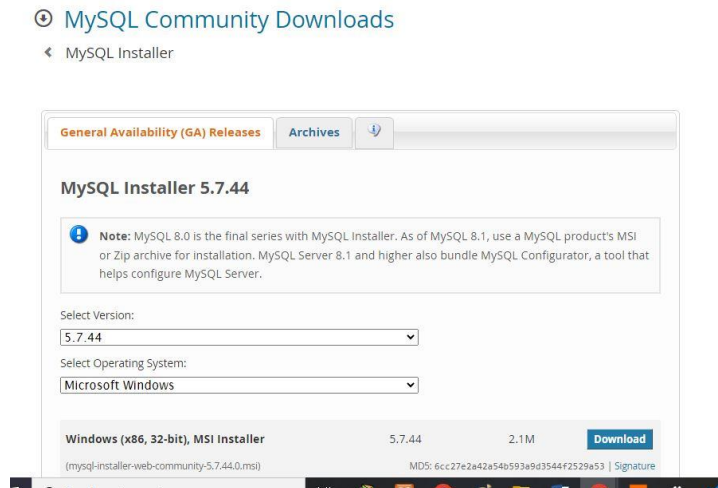
  iii.   Open the installer and follow the instructions to install MySQL Server.
  iv.   Set up MySQL Server as needed during the installation.

7. Explore Extensions and Plugins

Steps to Add Extensions to Visual Studio Code:

1. Open Visual Studio Code.

2. Click the Extensions icon in the sidebar.

3. Search for and install recommended extensions:

    - GitLens: For Git support.

  - Prettier: For code formatting.

  - Docker: For Docker support.