

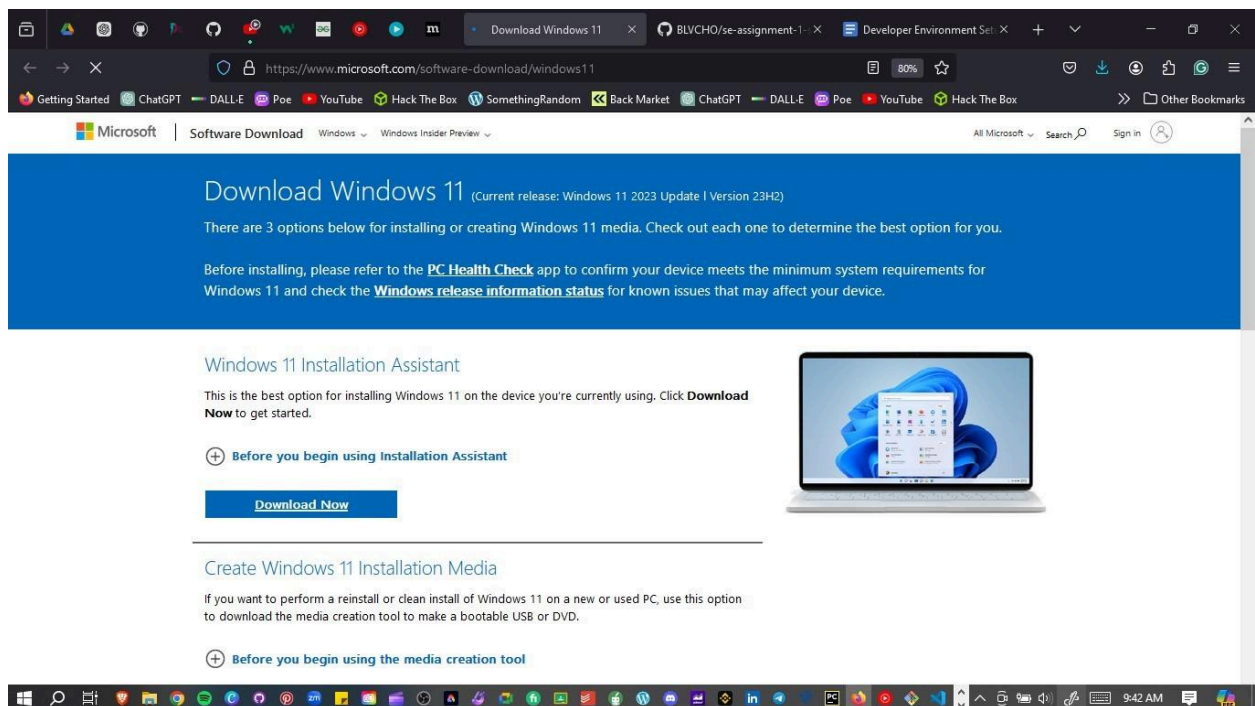
Developer Environment Setup Documentation

1. Operating System Installation

Steps and Screenshots of Windows 11 Installation:

1. Download Windows 11:

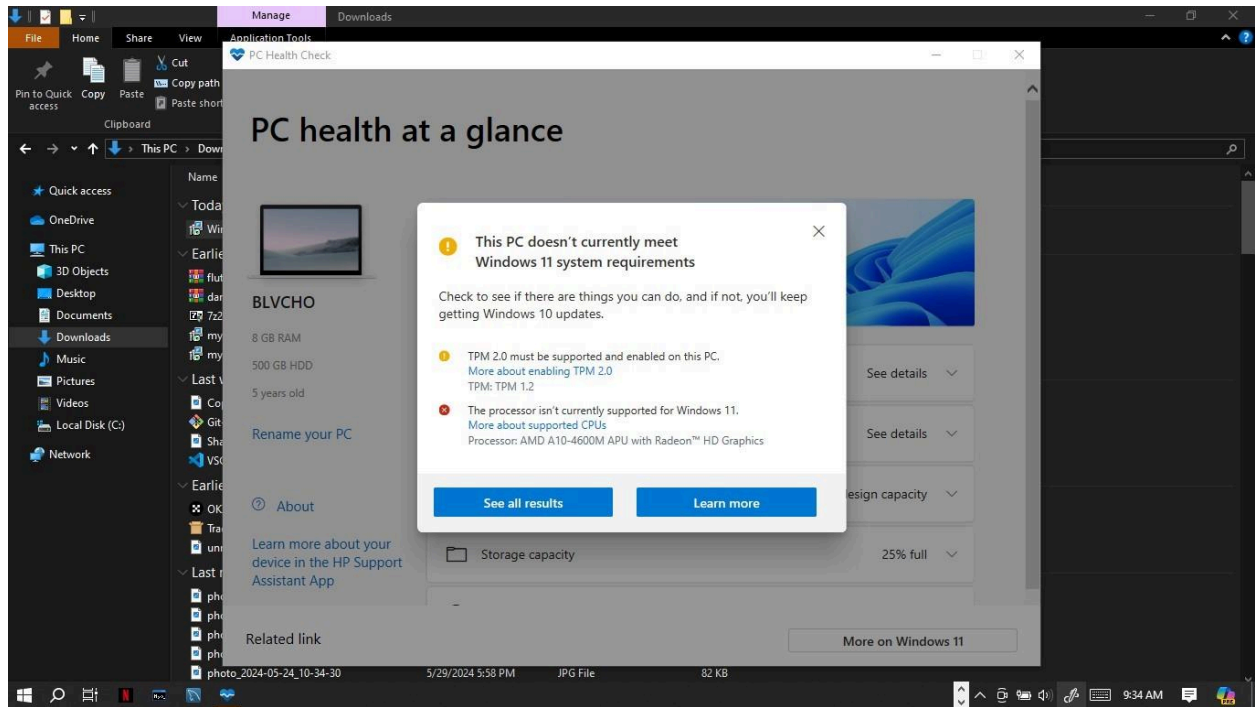
- Visit the official Microsoft website: [Windows 11 Download](https://www.microsoft.com/software-download/windows11).
- Download the Windows 11 Installation Assistant.
- Run the downloaded file and follow the on-screen instructions to upgrade or install Windows 11.



2. Installation Process:

- Ensure your PC meets the minimum system requirements.
- Back up your important files.

- Follow the installation steps, including selecting the installation type, partitioning your hard drive if necessary, and configuring initial settings.



3. Post-Installation Setup:

- Configure your user account, regional settings, and privacy settings.
- Install necessary drivers and updates.

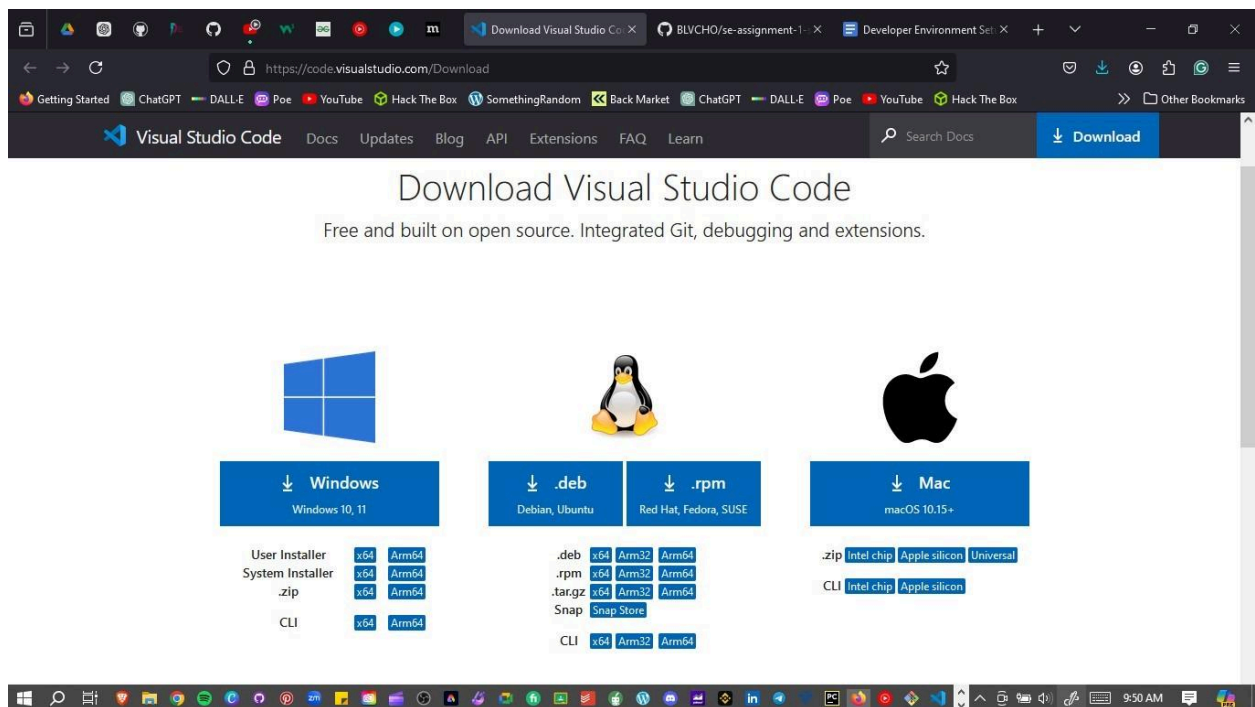
NB: MY PC DOES NOT SUPPORT WINDOWS 11

2. IDE Installation

Steps and Screenshots of Visual Studio Code Installation:

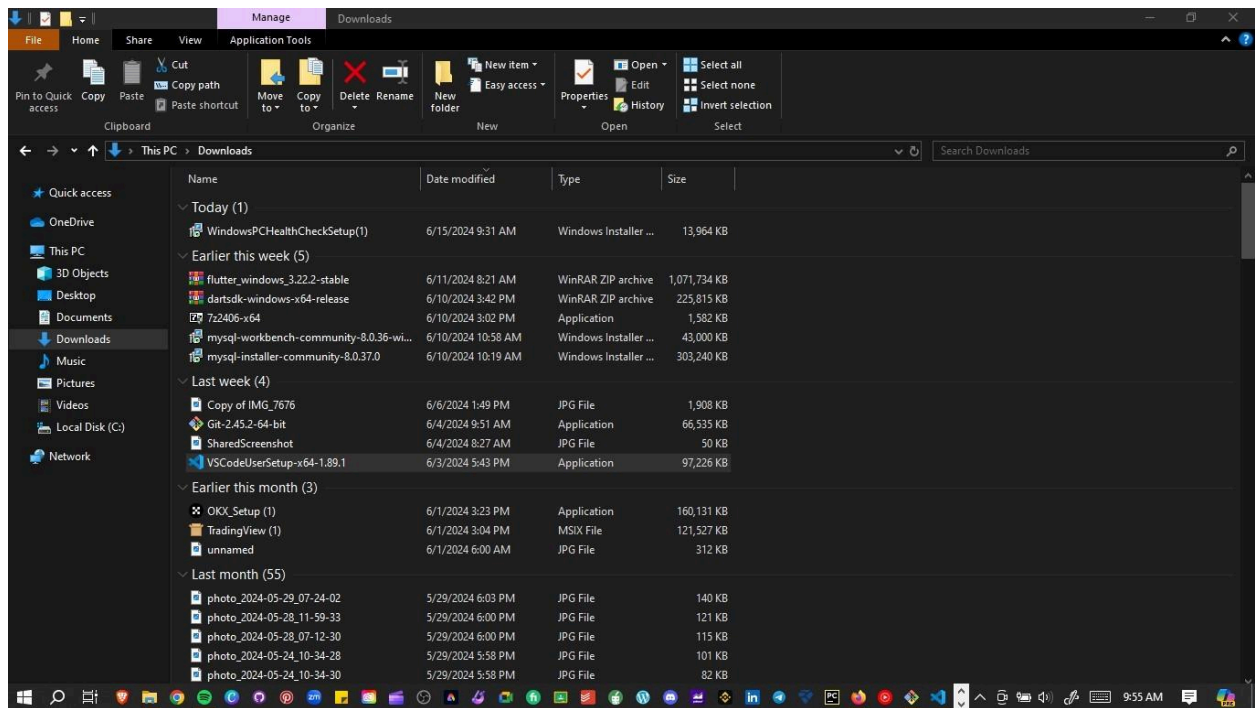
1. Download VS Code:

- Visit the Visual Studio Code download page: [VS Code Download](https://code.visualstudio.com/Download).
- Select the appropriate version for Windows and download the installer.



2. Installation Process:

- Run the downloaded installer.
- Follow the installation wizard, accepting the license agreement and choosing the installation location.
- Select additional tasks such as adding to PATH and creating a desktop icon.



3. First Launch and Setup:

- Launch VS Code and install recommended extensions like Python, GitLens, and Docker.

File Edit Selection View Go Run


se-assignment-1-setting-up-your-developer-environment-BLVCHO


EXTENSIONS


Search Extensions in Mark...


INSTALLED


10


**Django**
Beautiful syntax and scoped...
Baptiste Darthenay

**GitHub Copilot**
Your AI pair programmer
GitHub

**GitHub Copilot C...**
AI chat features powered by...
GitHub

**Live Server**
Launch a development local...
Ritwick Dey

**Nebula Pandas**
ChirtleLovesDolls' lovely Ne...
GokturkSM


**Prettier - Code f...**
Code formatter using prettier
Prettier

RECOMMENDED

0

README.md M

Extension: Prettier - Code formatter X



Prettier - Code formatter

v10.4.0

Prettier

Code formatter using prettier

Disable

Uninstall

DETAILS

FEATURES

CHANGELOG

Prettier Formatter for Visual Studio Code

Prettier is an opinionated code formatter. It enforces a consistent style by parsing your code and re-printing it with its own rules that take the maximum line length into account, wrapping code when necessary.

JavaScript · TypeScript · Flow · JSX · JSON

CSS · SCSS · Less

HTML · Vue · Angular HANDLEBARS · Ember · Glimmer

GraphQL · Markdown · YAML

Your favorite language?

Main

passing

downloads 226M

installs 46M

code style

prettier

follow prettier

Installation

Install through VS Code extensions. Search for `Prettier - Code formatter`

Visual Studio Code Market Place: [Prettier - Code formatter](#)

Can also be installed in VS Code: Launch VS Code Quick Open (Ctrl+P), paste the following

Categories

Formatters

More Info

Last updated

2024-06-03, 15:39:55

Identifier

esbenp.prettier-vscode

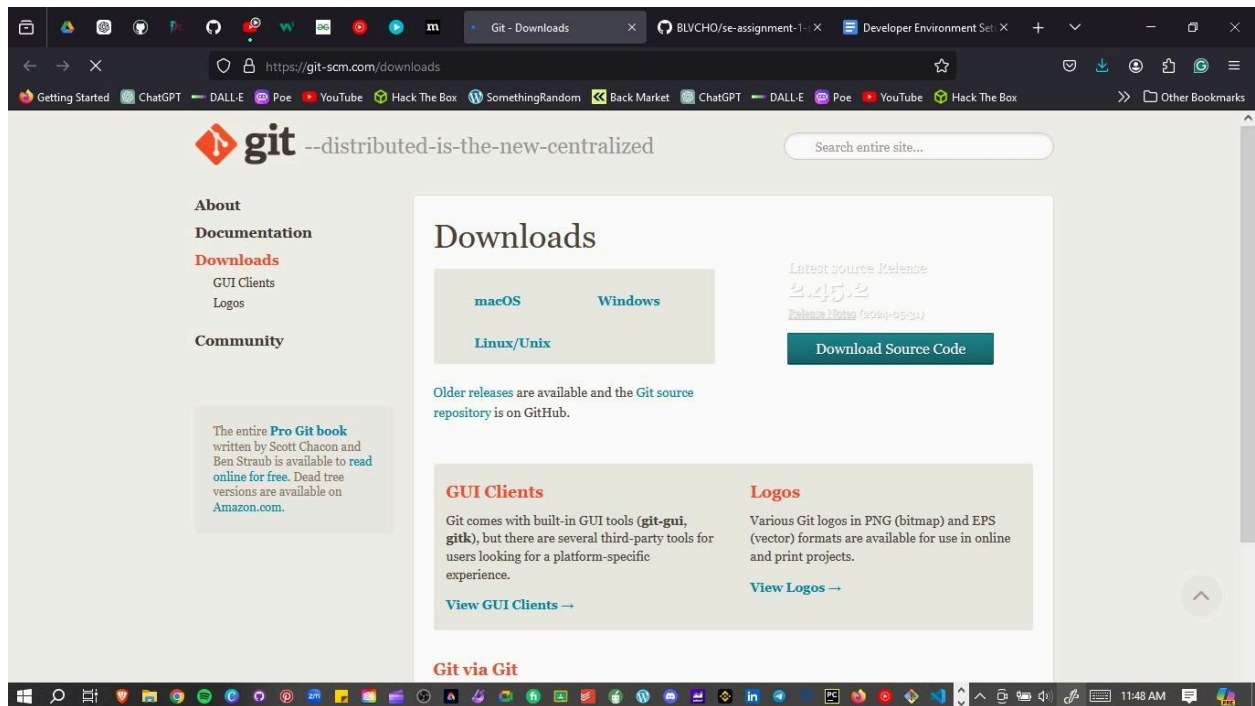
Windows taskbar with various application icons and system clock showing 11:46 AM.

3. Version Control Setup

Steps for Installing Git, Creating a GitHub Account, Initializing a Repository, and Making the First Commit:

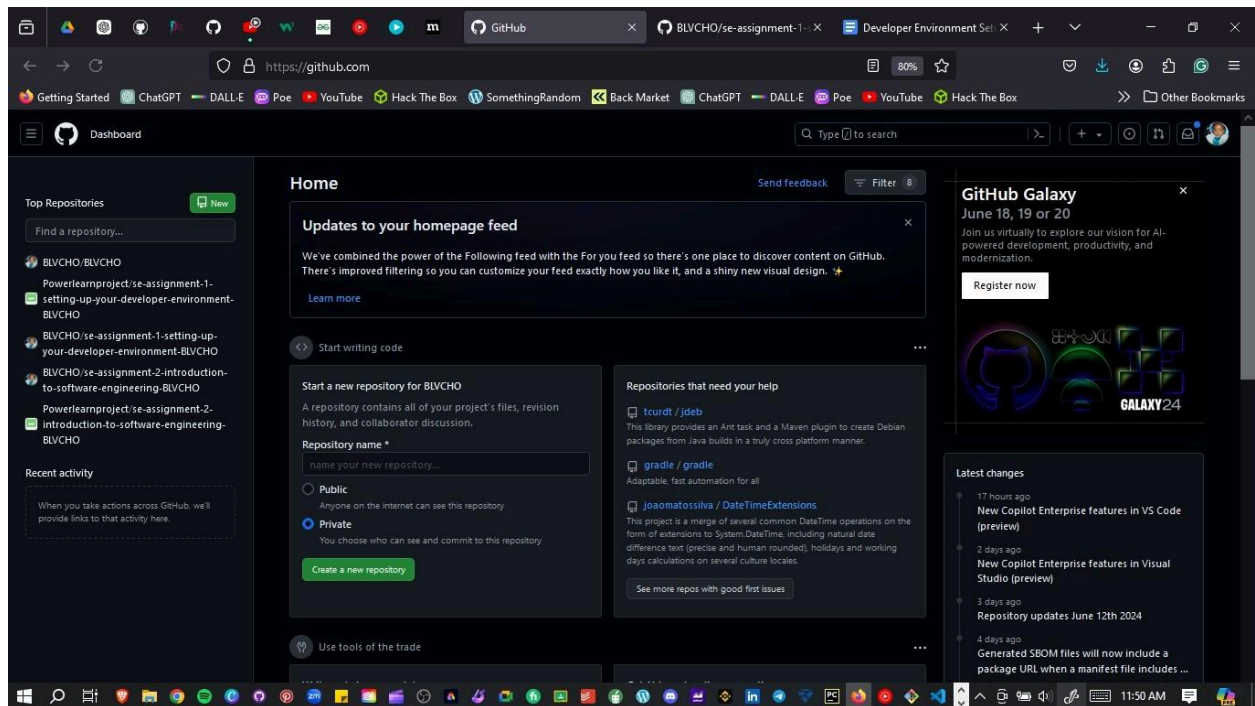
1. Install Git:

- Download Git from the official site: [Git Download](<https://git-scm.com/downloads>).
- Run the installer and follow the setup instructions, choosing your preferred options for PATH, line endings, and other settings.



2. Create a GitHub Account:

- Visit [GitHub](https://github.com) and sign up for a new account if you still need to get one.



3. Initialize a Git Repository:

- Open Git Bash or the terminal in VS Code.
- Navigate to your project directory or create a new one:

```
```bash
mkdir my_project
cd my_project
```
```

- Initialize a Git repository:

```
```bash
git init
```
```

- Create a README file:

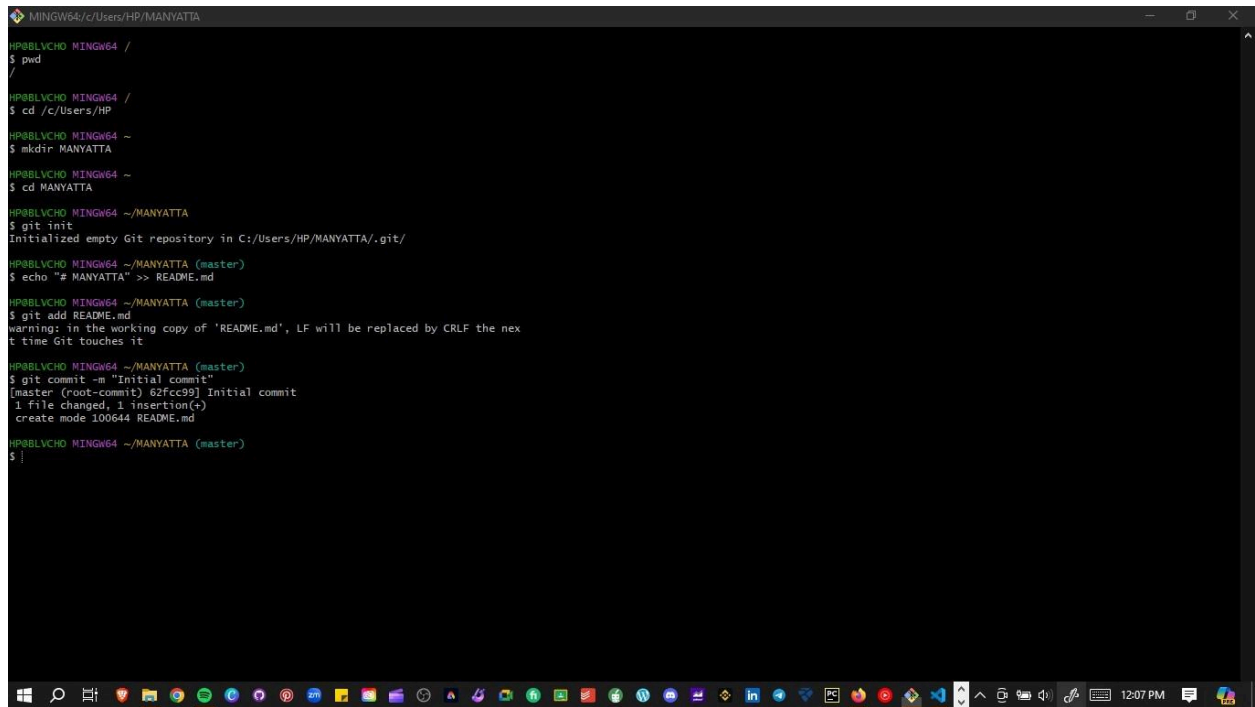
```
```bash
echo "# My Project" >> README.md
```
```

- Add the README file to the staging area:

```
```bash
git add README.md
```
```

- Commit the changes:


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



```
HPBBLVCHO MINGW64 /
$ pwd
/

HPBBLVCHO MINGW64 /
$ cd /c/Users/HP

HPBBLVCHO MINGW64 ~
$ mkdir MANYATTA

HPBBLVCHO MINGW64 ~
$ cd MANYATTA

HPBBLVCHO MINGW64 ~/MANYATTA
$ git init
Initialized empty Git repository in C:/Users/HP/MANYATTA/.git/

HPBBLVCHO MINGW64 ~/MANYATTA (master)
$ echo "# MANYATTA" >> README.md

HPBBLVCHO MINGW64 ~/MANYATTA (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

HPBBLVCHO MINGW64 ~/MANYATTA (master)
$ git commit -m "Initial commit"
[master (root-commit) 62fcc99] Initial commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

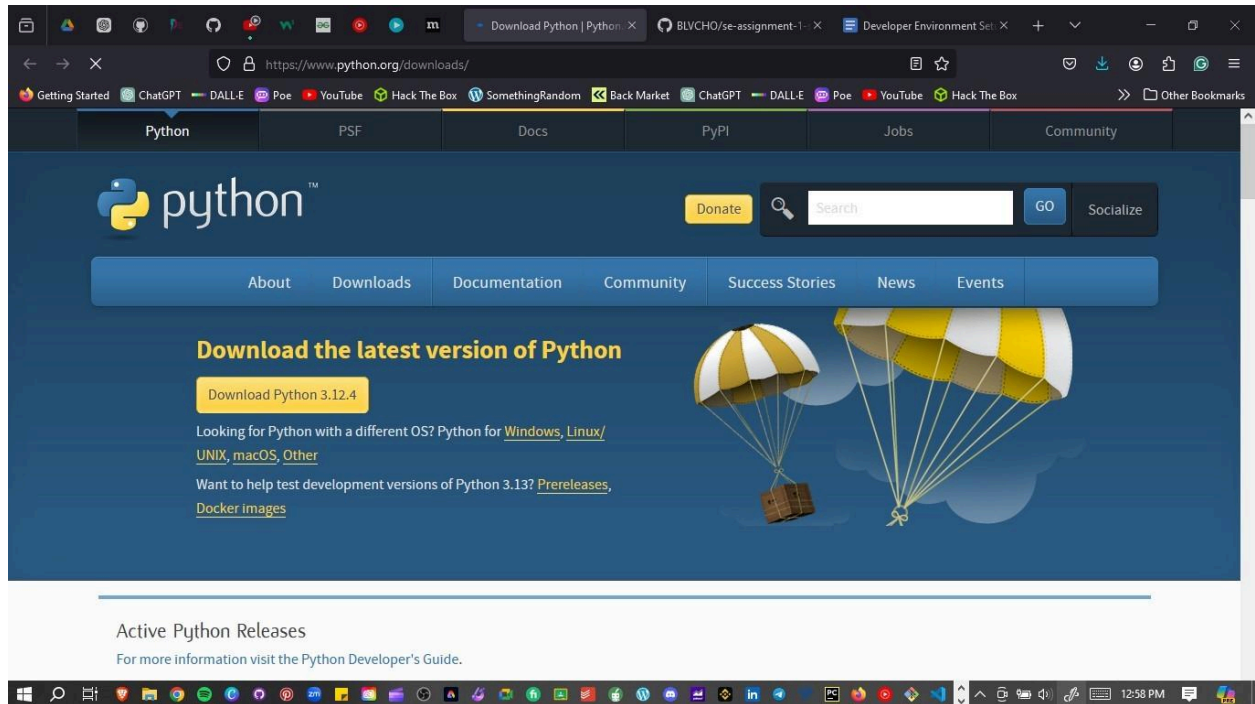
HPBBLVCHO MINGW64 ~/MANYATTA (master)
$ !
```

4. Programming Languages and Runtimes

Steps for Installing Python:

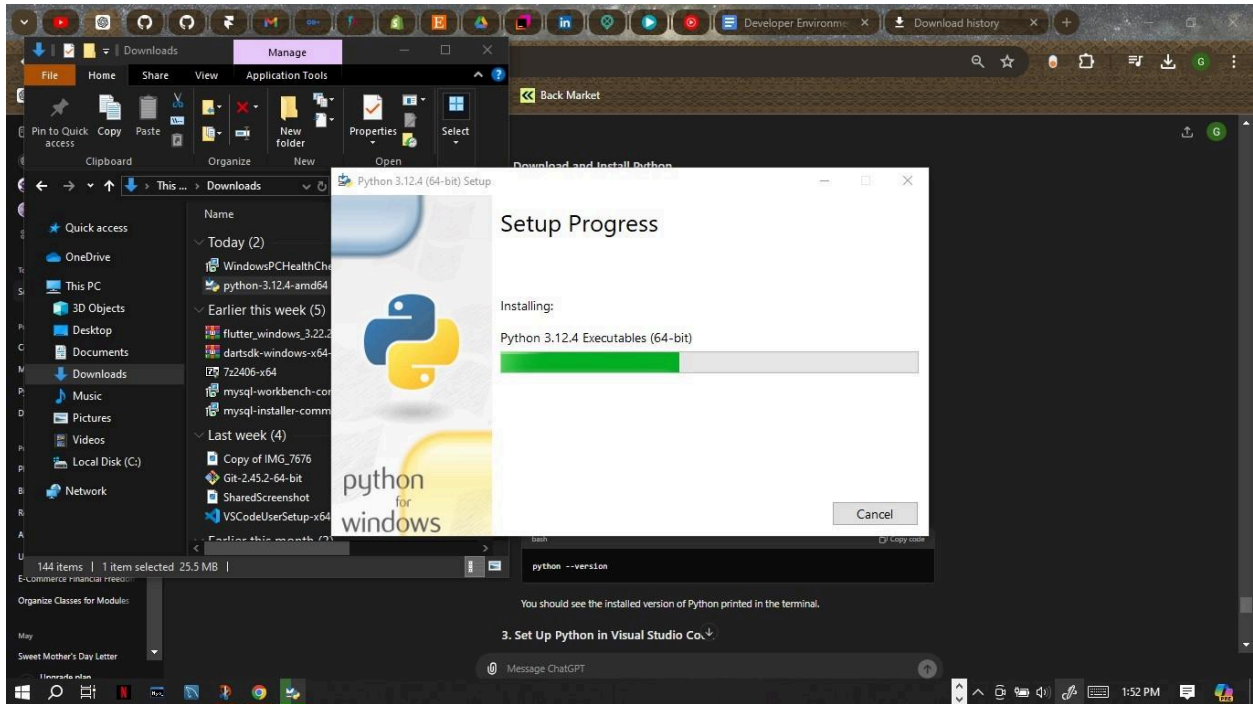
1. Download Python:

- Visit the official Python website: [Python Download](https://www.python.org/downloads/).
- Download the latest version of Python for Windows.



2. Installation Process:

- Run the installer, ensure you check the option to add Python to PATH.
- Follow the installation wizard.



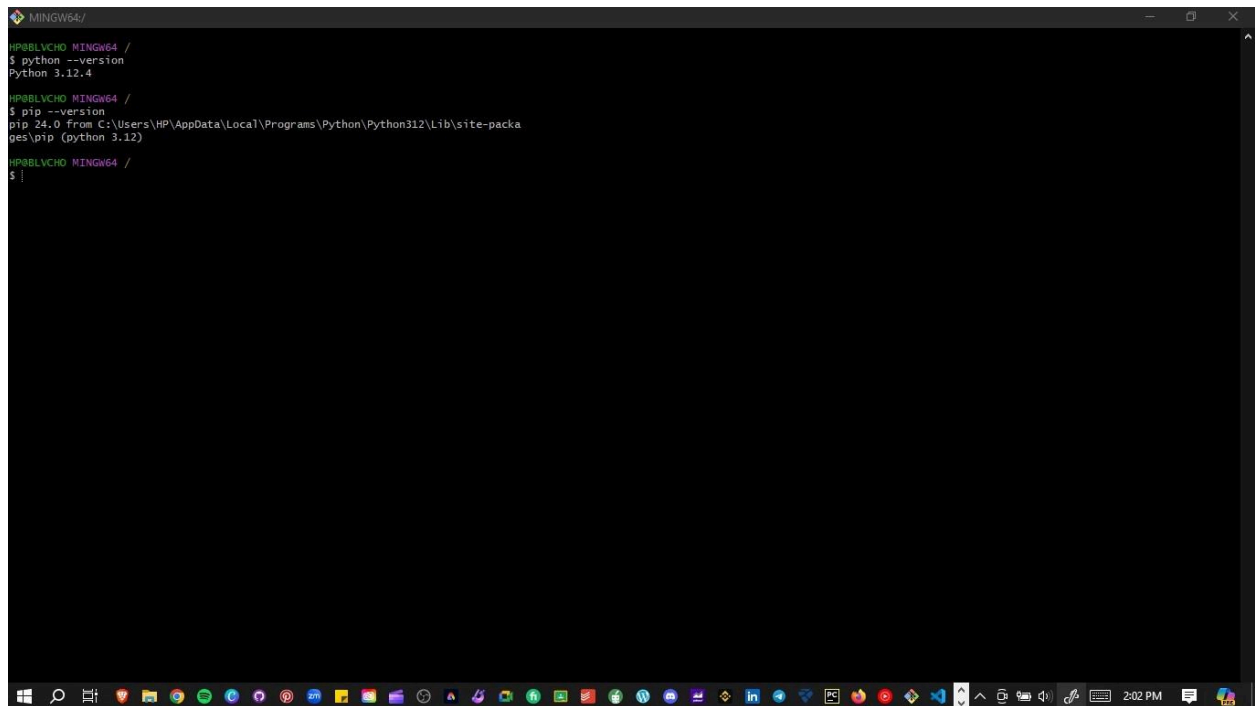
3. Verify Installation:

- Open Command Prompt and type:

```
```bash
python --version
```
```

- Verify pip installation:

```
```bash
pip --version
```
```



```
HP\BVLVCHO MINGW64 /
$ python --version
Python 3.12.4

HP\BVLVCHO MINGW64 /
$ pip --version
pip 24.0 from C:\Users\HP\AppData\Local\Programs\Python\Python312\Lib\site-packages\pip (python 3.12)

HP\BVLVCHO MINGW64 /
$
```

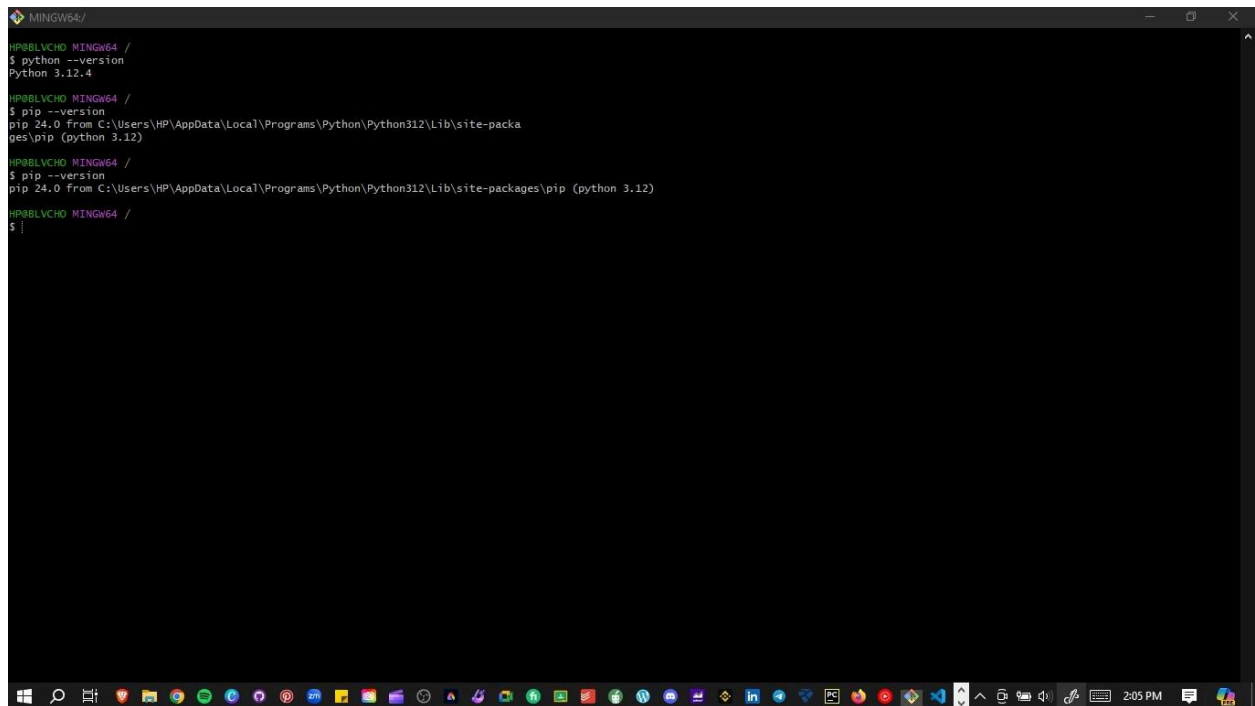
5. Package Managers

Verification of pip Installation:

1. Verify pip:

- Open Command Prompt and type:

```
```bash
pip --version
```
```



```
HP@BLVCHO MINGW64 /
$ python --version
Python 3.12.4

HP@BLVCHO MINGW64 /
$ pip --version
pip 24.0 from C:\Users\HP\AppData\Local\Programs\Python\Python312\Lib\site-packages\pip (python 3.12)

HP@BLVCHO MINGW64 /
$ pip --version
pip 24.0 from C:\Users\HP\AppData\Local\Programs\Python\Python312\Lib\site-packages\pip (python 3.12)

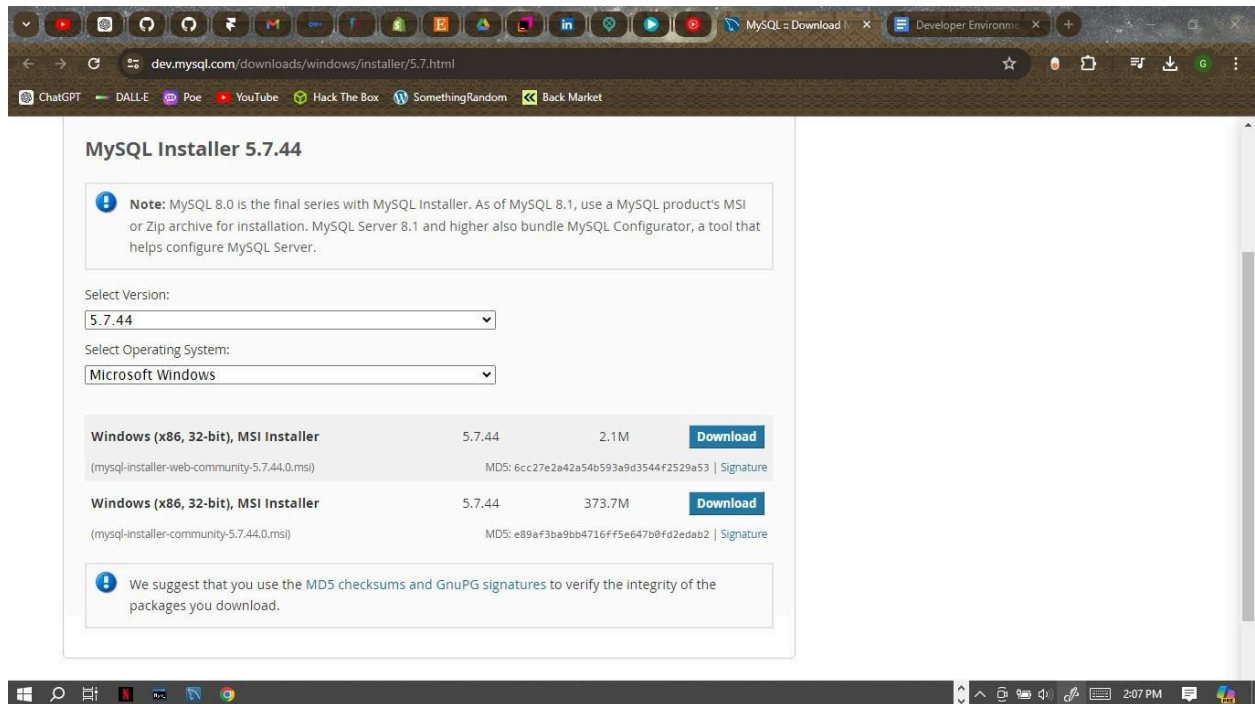
HP@BLVCHO MINGW64 /
$ |
```

6. Database Configuration

Steps for Installing MySQL:

1. Download MySQL:

- Visit the MySQL download page: [MySQL Download](<https://dev.mysql.com/downloads/windows/installer/5.7.html>).
- Download the MySQL Installer for Windows.



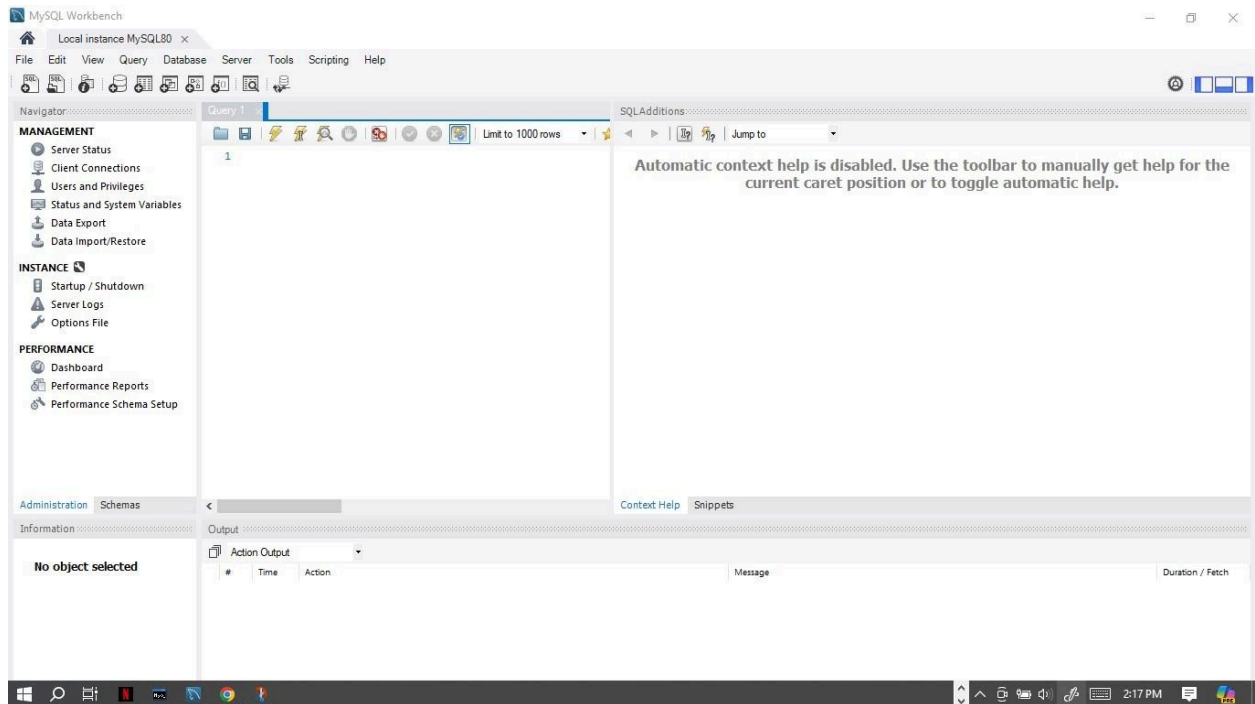
2. Installation Process:

- Run the MySQL Installer and follow the setup wizard.
- Choose the setup type (e.g., Developer Default).
- Configure MySQL Server settings, including the root password.

NB. MYSQL IS ALREADY CONFIGURED WITH PASSWORD

3. Verify Installation:

- Open MySQL Workbench or MySQL Shell and connect to your MySQL server.



7. Development Environments and Virtualization (Optional)

Optional Steps for Installing and Setting Up Docker:

1. Download Docker:

- Visit the Docker Desktop download page: [Docker Download](https://www.docker.com/products/docker-desktop).
- Download and run the Docker Desktop installer.

![Docker Download](images/docker-download.png)

2. Installation Process:

- Follow the installation instructions.
- Start Docker Desktop and follow the setup wizard.

NE NOT OPTED FOR

3. Verify Installation:

- Open Command Prompt or PowerShell and type:

```
```bash
docker --version
```
```

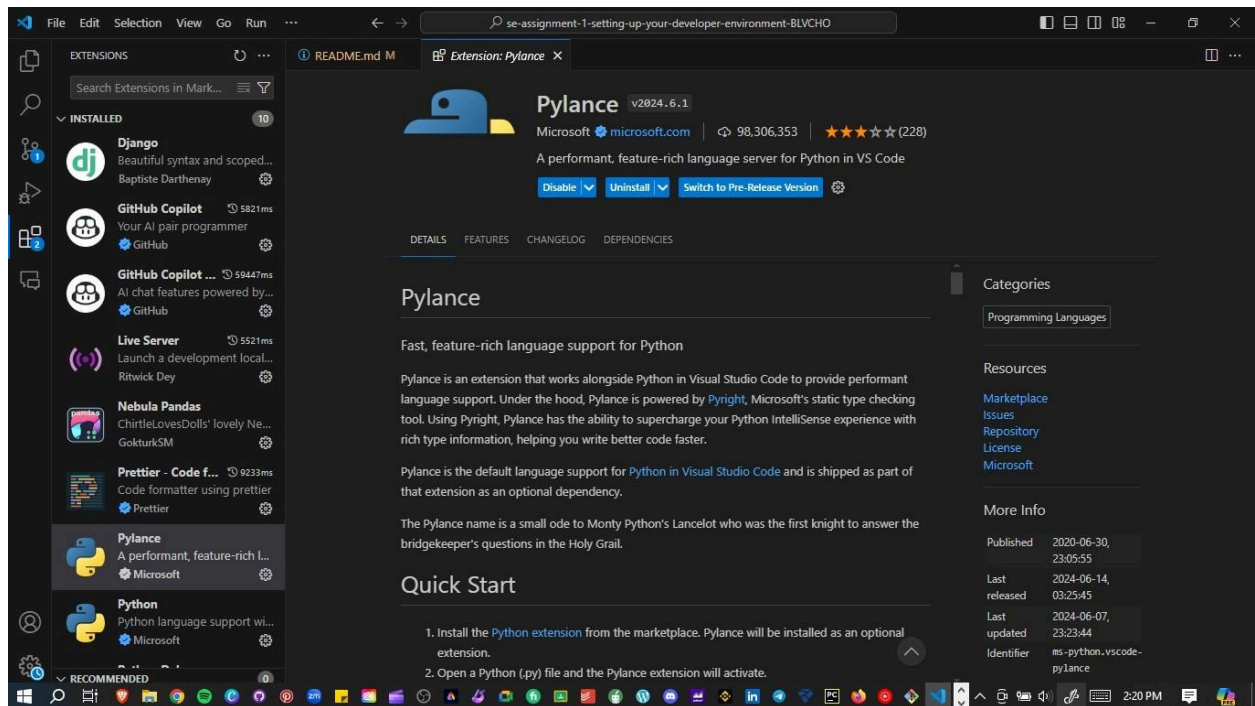


8. Extensions and Plugins

List of Installed Extensions for VS Code:

1. Install Extensions:

- Open VS Code.
- Go to the Extensions view (`Ctrl+Shift+X`).
- Search for and install the following extensions:
 - Python
 - GitLens — Git supercharged
 - Docker
 - Prettier - Code formatter
 - ESLint
 - MySQL



9. Challenges and Solutions

1. Challenge: Installing MySQL and Configuring the Root Password

- Solution: Followed a step-by-step tutorial and used the official MySQL documentation for troubleshooting.

2. Challenge: Initializing a Git Repository and Making the First Commit

- Solution: Used Git documentation and GitHub guides to understand the commands and workflow.

Deliverables

1. Setup Documentation:

- This document with detailed steps and screenshots.

2. GitHub Repository: <https://github.com/BLVCHO/sample-repository.git>

3. Reflection:

- Included in the Challenges and Solutions section.