

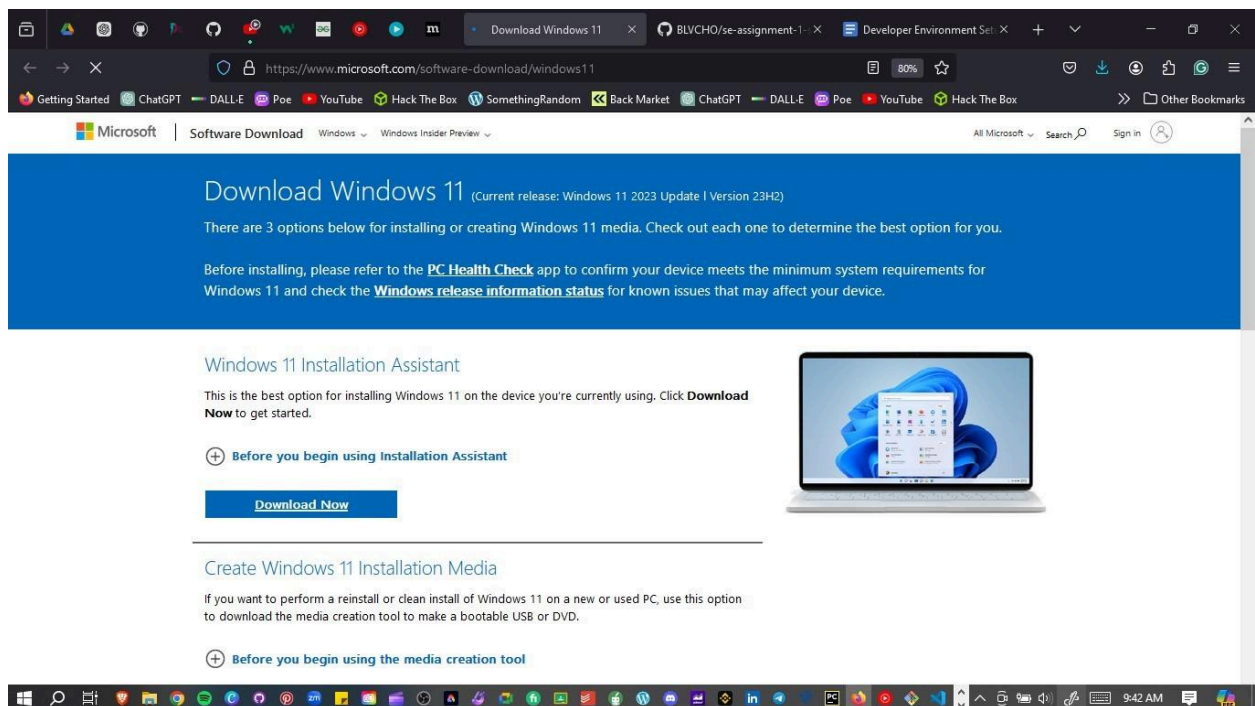
# Developer Environment Setup Documentation

## 1. Operating System Installation

Steps and Screenshots of Windows 11 Installation:

### 1. Download Windows 11:

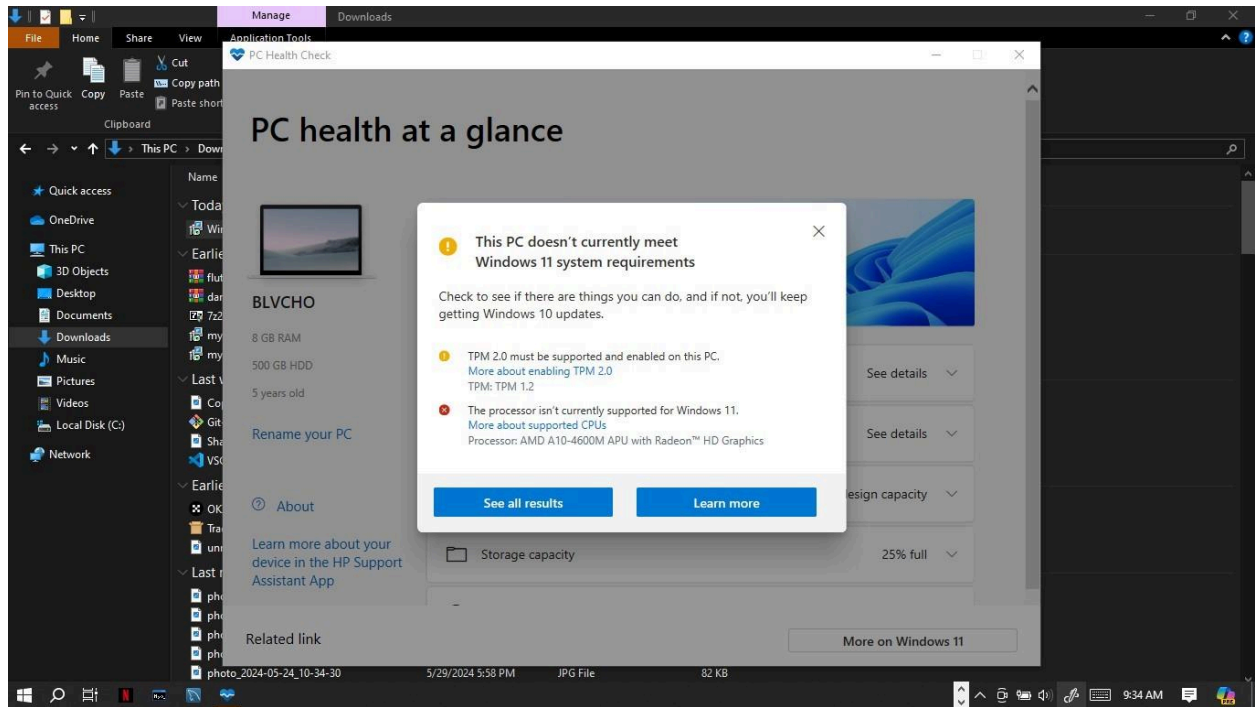
- Visit the official Microsoft website: [Windows 11 Download](https://www.microsoft.com/software-download/windows11).
- Download the Windows 11 Installation Assistant.
- Run the downloaded file and follow the on-screen instructions to upgrade or install Windows 11.



### 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.

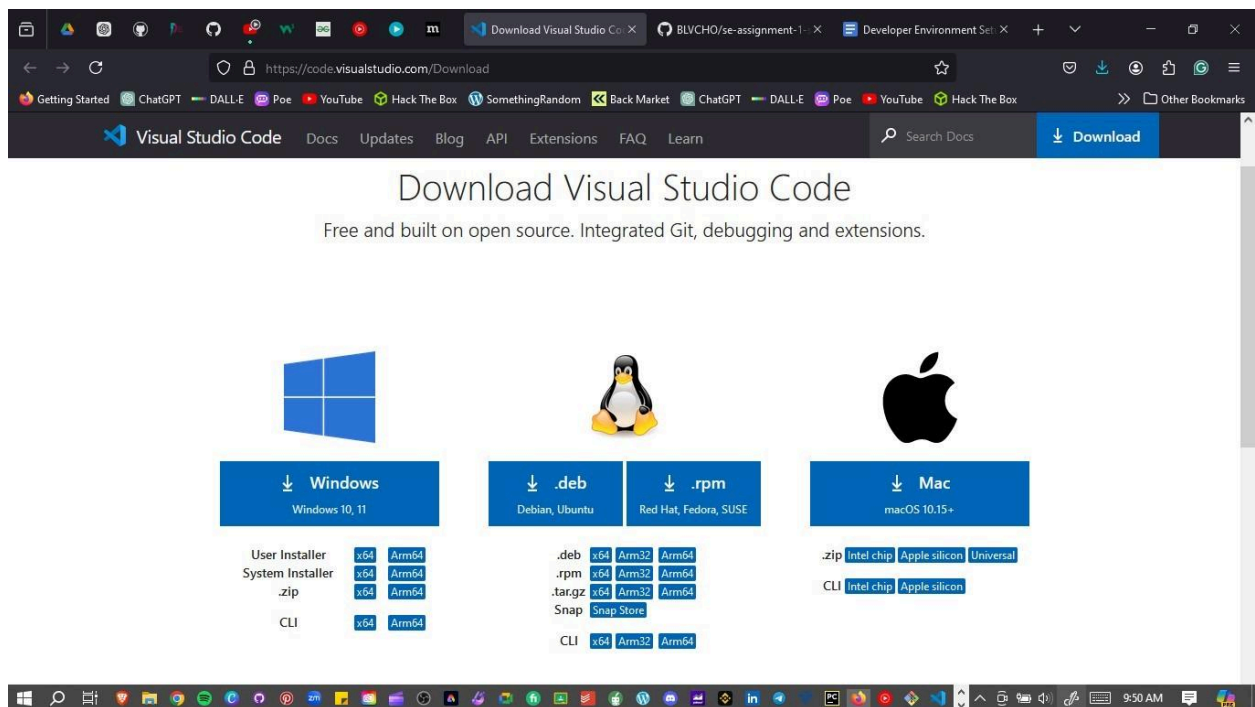
**NB: MY PC DOES NOT SUPPORT WINDOWS 11**

## 2. IDE Installation

### Steps and Screenshots of Visual Studio Code Installation:

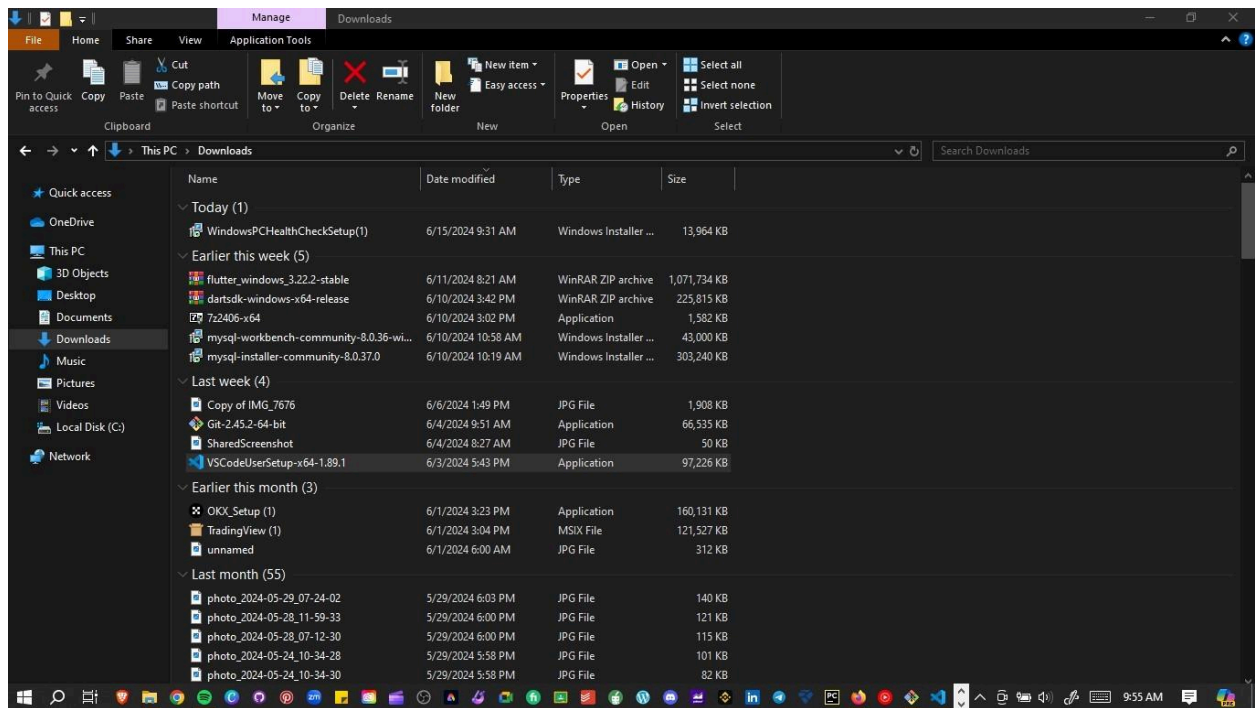
#### 1. Download VS Code:

- 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

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

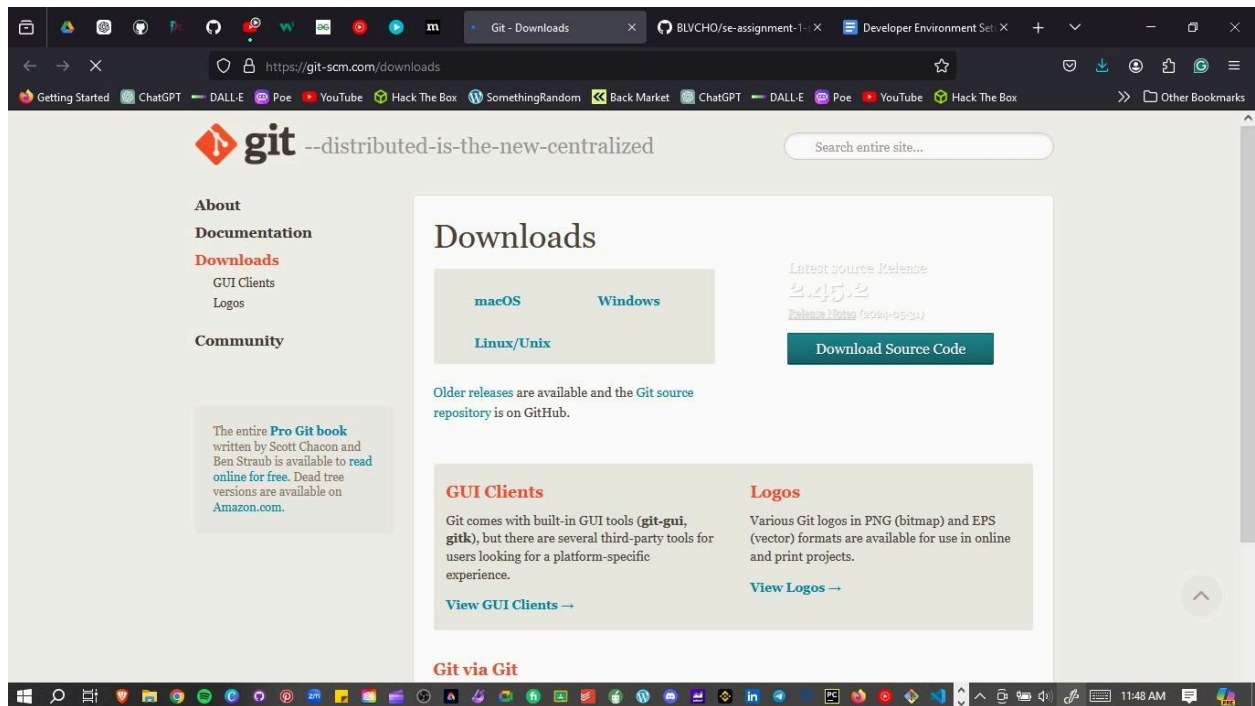
Windows taskbar with various application icons and system clock showing 11:46 AM

### 3. Version Control Setup

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

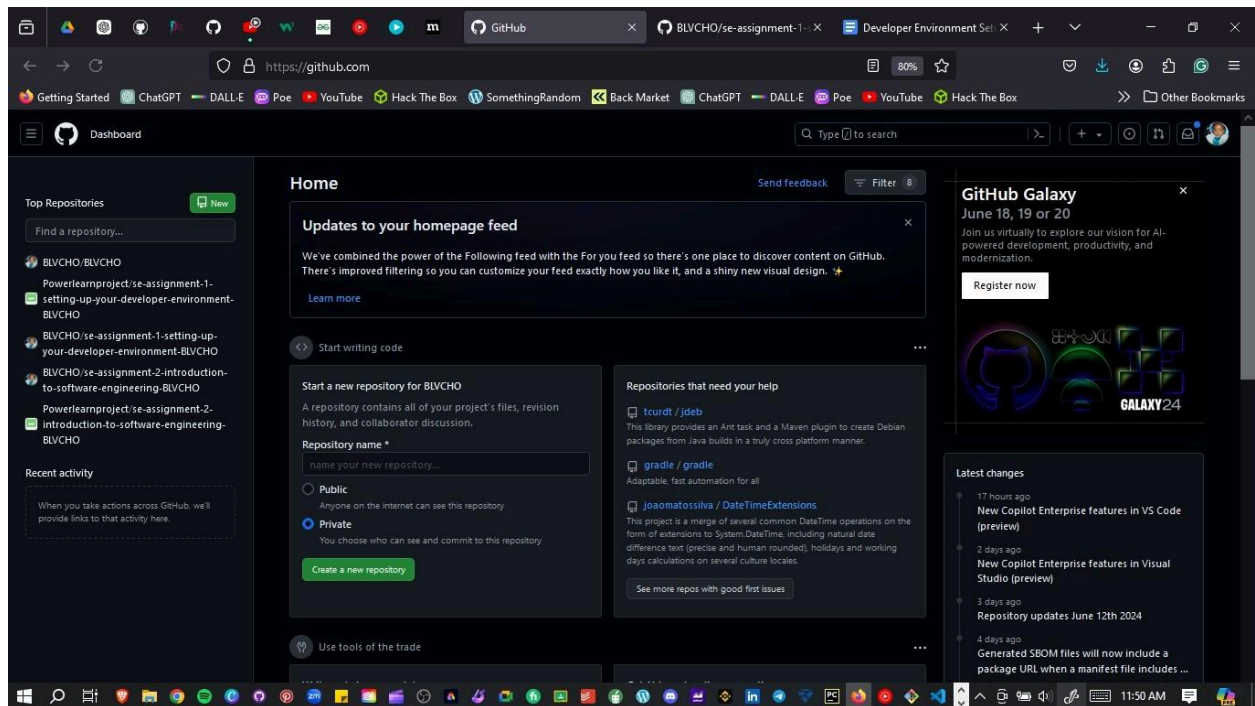
#### 1. Install Git:

- 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
```
```

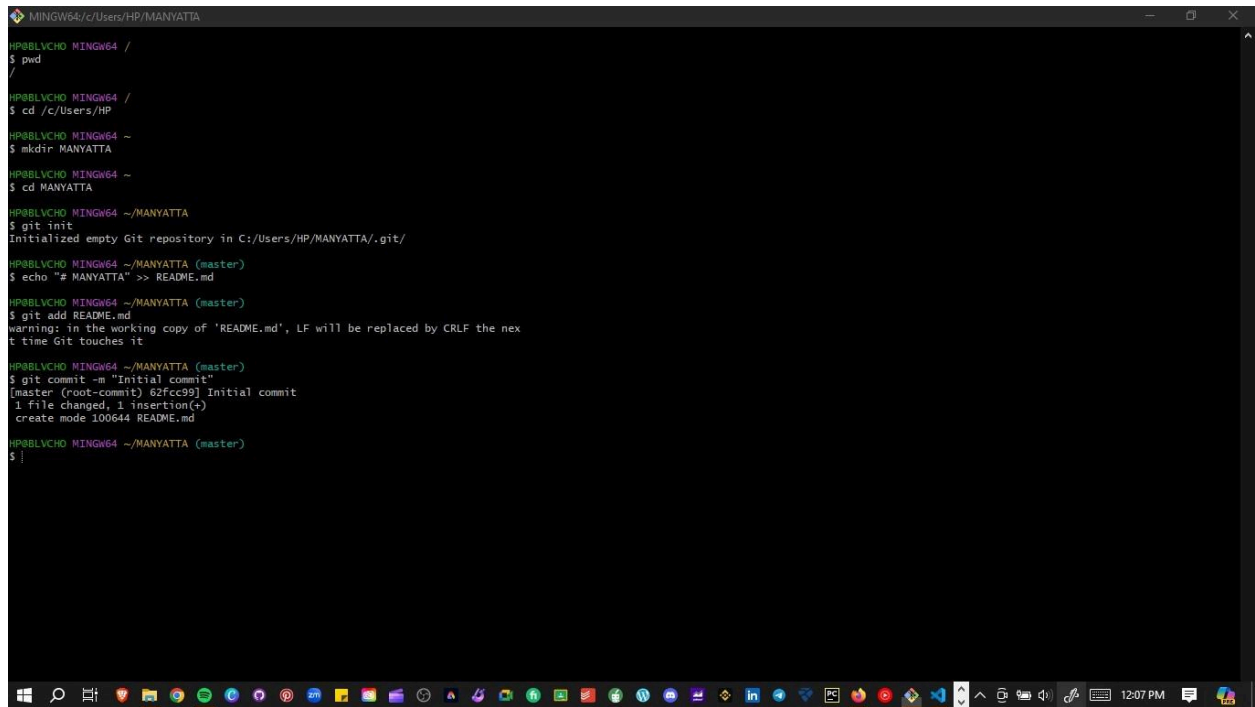
- Add the README file to the staging area:

```
```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

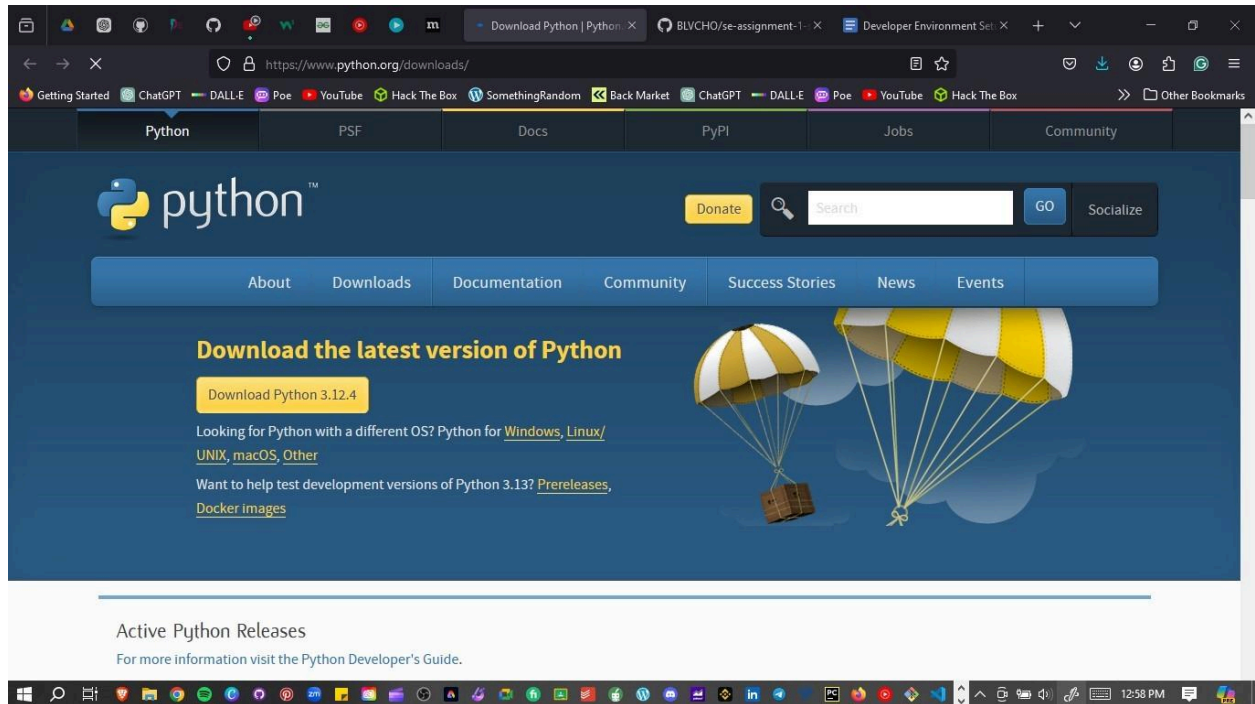
HPBBLVCHO MINGW64 ~/MANYATTA (master)
$ !
```

## 4. Programming Languages and Runtimes

## Steps for Installing Python:

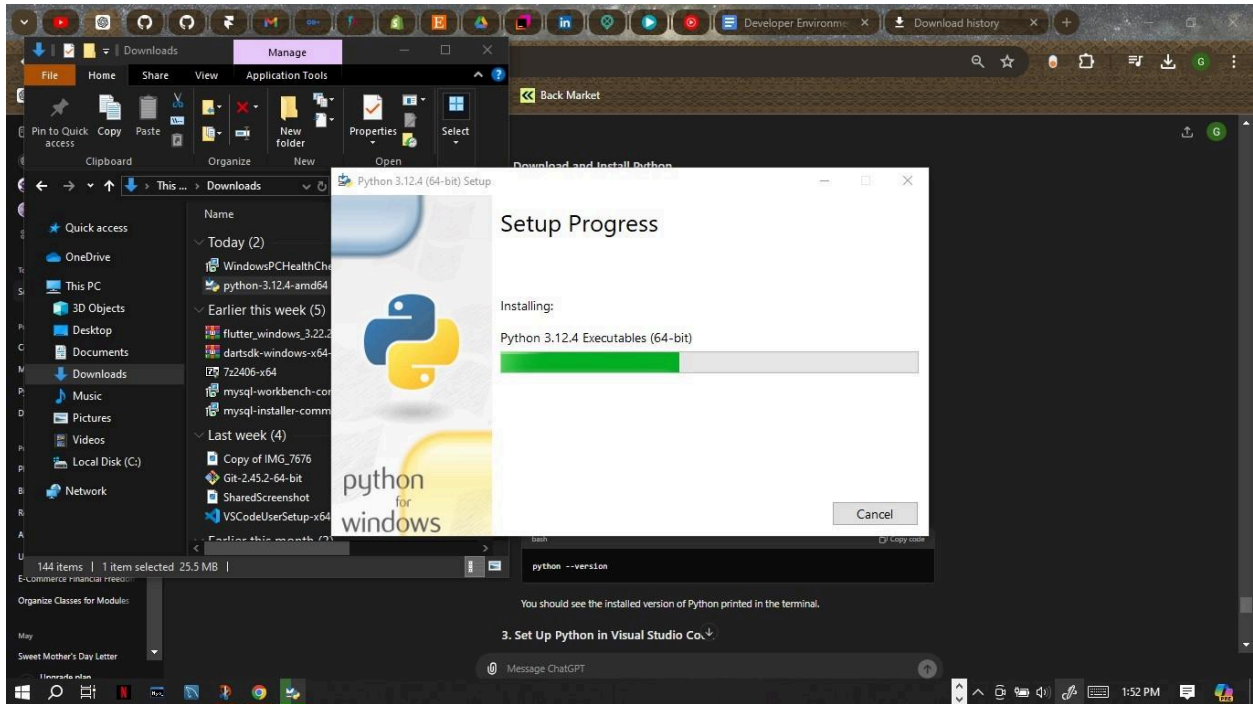
### 1. Download Python:

- 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.



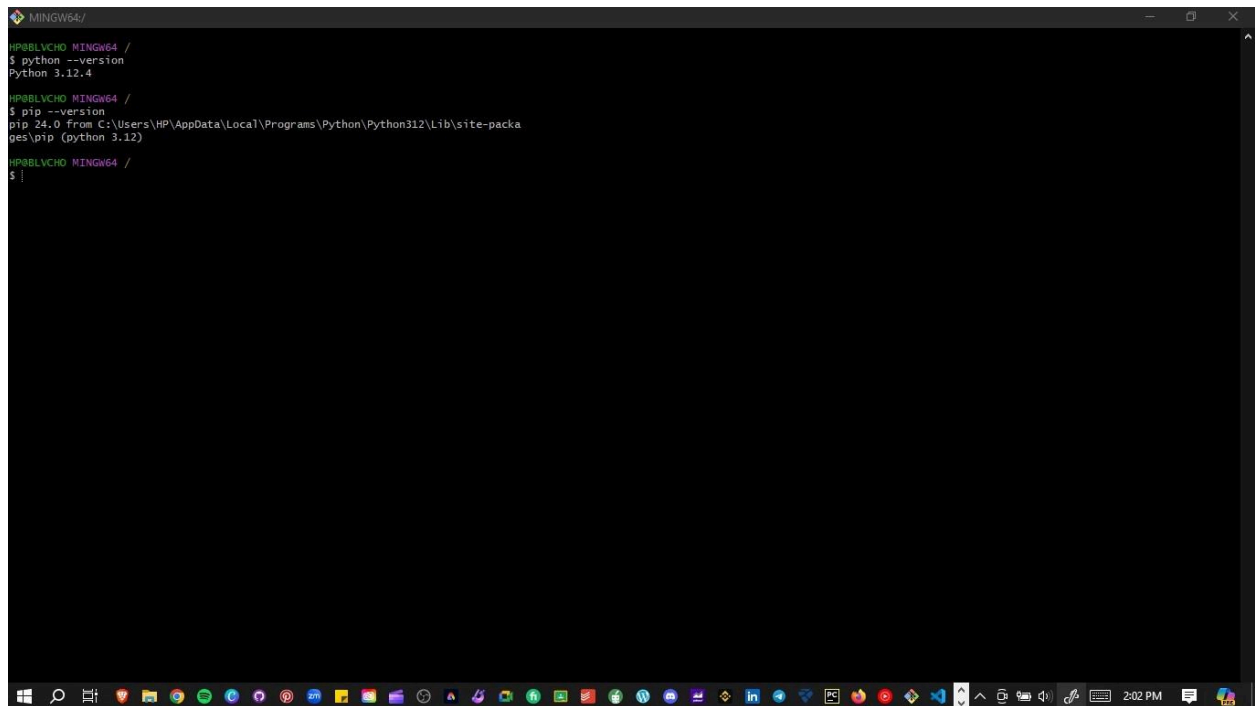
### 3. Verify Installation:

- Open Command Prompt and type:

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

- Verify pip installation:

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



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

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

HP\BVLCHO MINGW64 /
$
```

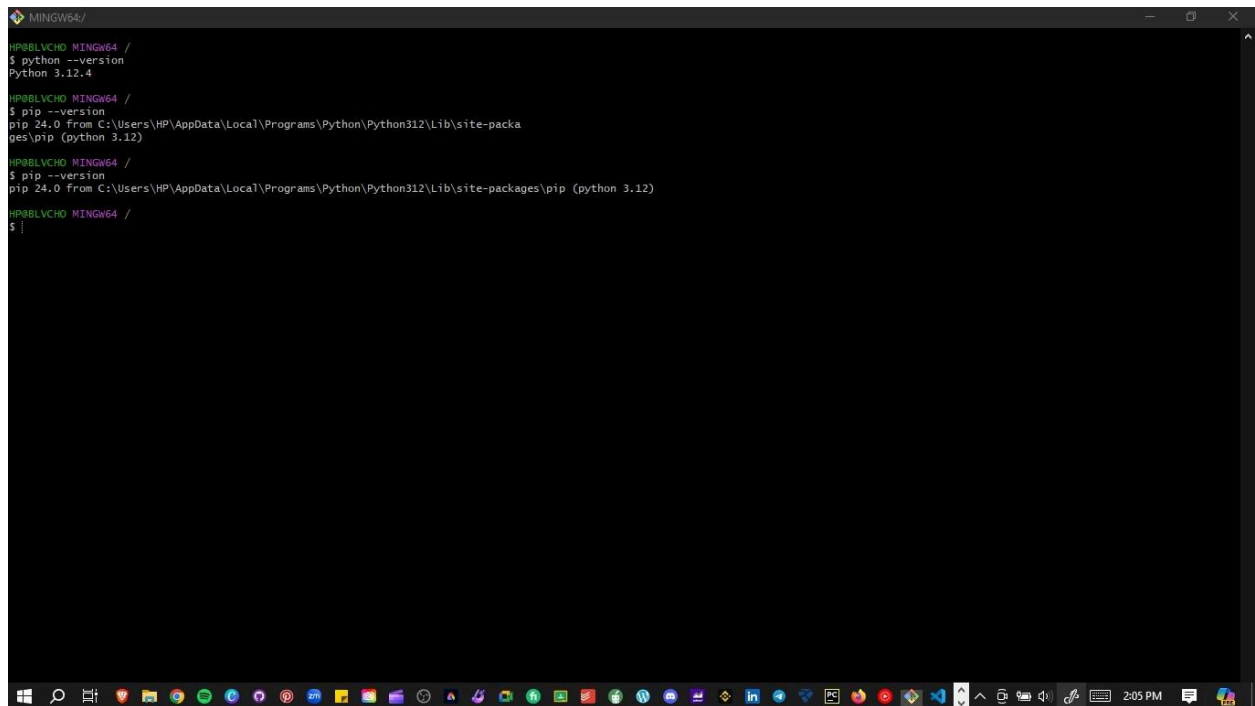
## 5. Package Managers

Verification of pip Installation:

1. Verify pip:

- Open Command Prompt and type:

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



```
HP08LVCHO MINGW64 /
$ python --version
Python 3.12.4

HP08LVCHO MINGW64 /
$ pip --version
pip 24.0 from C:\Users\HP\AppData\Local\Programs\Python\Python312\Lib\site-packages\pip (python 3.12)

HP08LVCHO MINGW64 /
$ pip --version
pip 24.0 from C:\Users\HP\AppData\Local\Programs\Python\Python312\Lib\site-packages\pip (python 3.12)

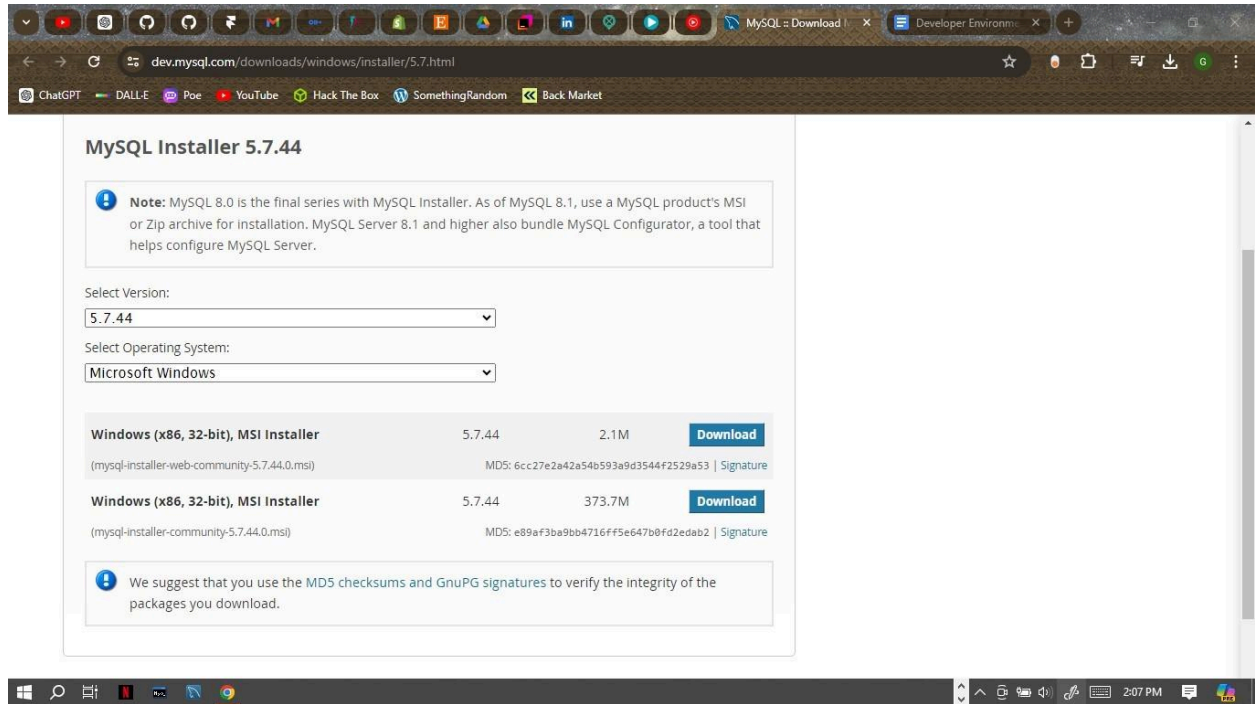
HP08LVCHO MINGW64 /
$ |
```

## 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.



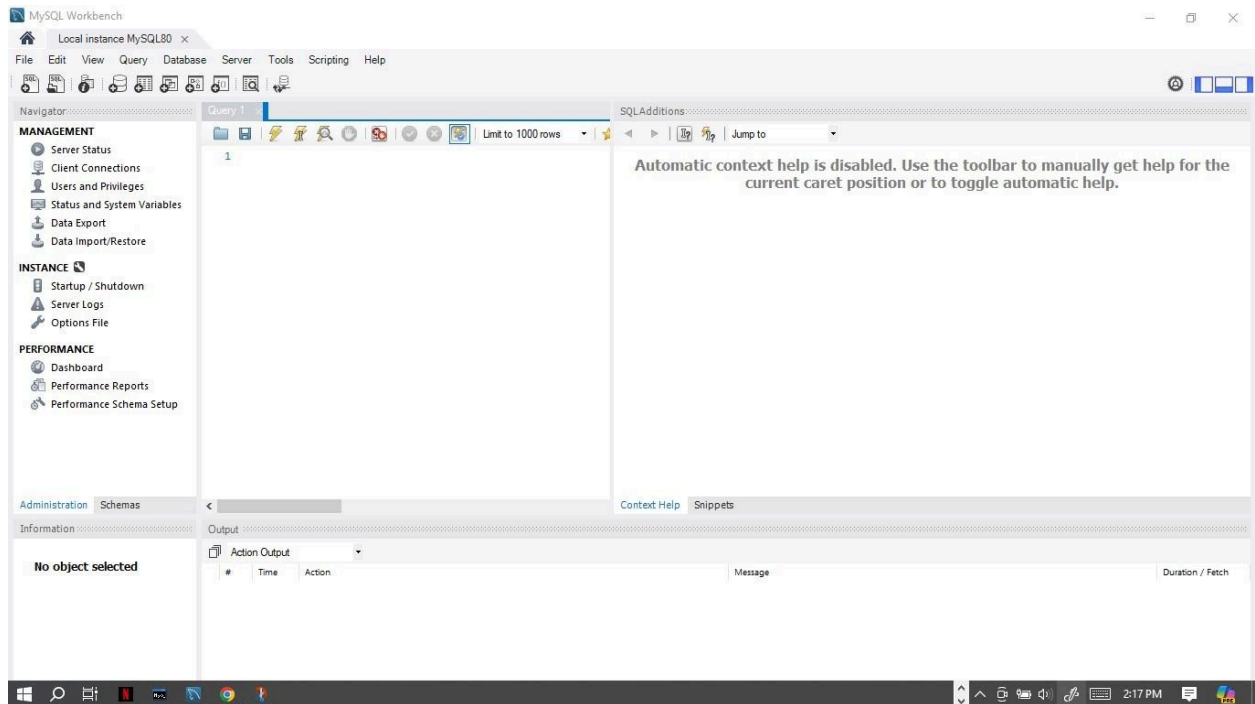
## 2. Installation Process:

- 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.

**NB:NOT OPTED FOR**

### 3. Verify Installation:

- Open Command Prompt or PowerShell and type:

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

**NB:NOT OPTED FOR**

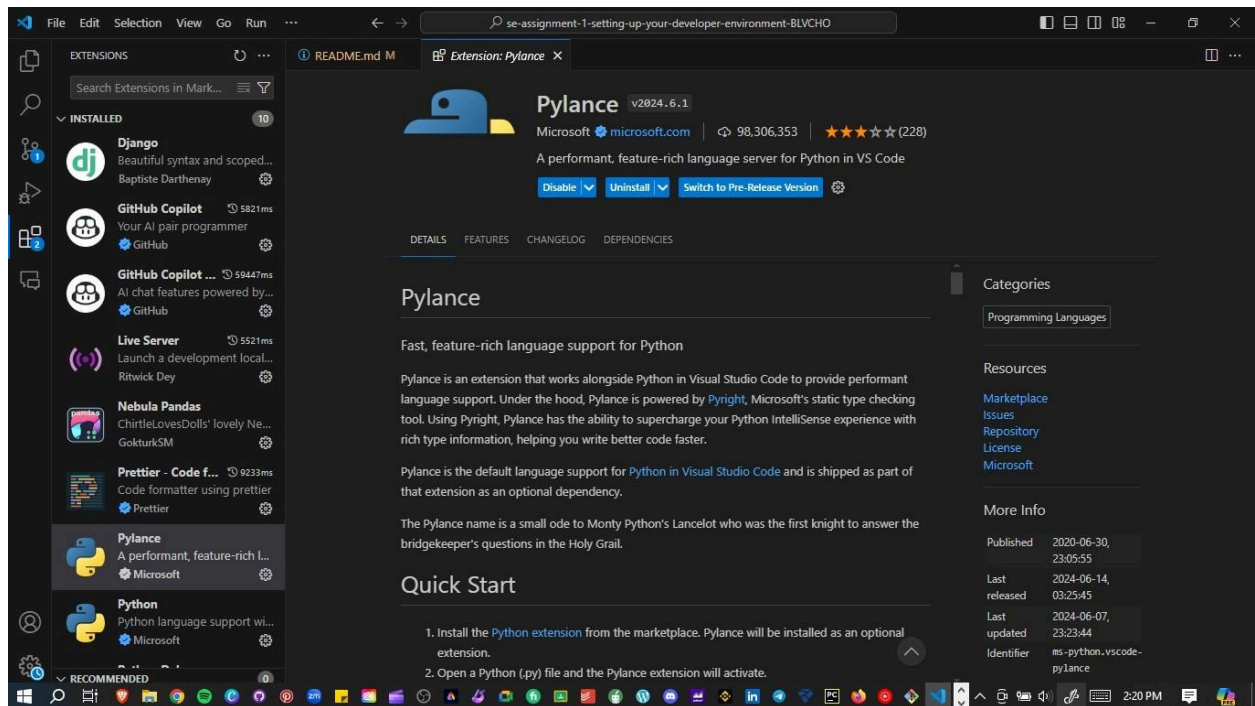
## 8. Extensions and Plugins

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.