

Setting up a developer environment involves several steps to ensure the necessary tools for development. Here's a step-by-step guide that I followed:

- My computer came with Windows 11 already installed and set-up.

Step 1: Install Visual Studio Code (VS Code)

1. Download VS Code:

- Go to the [VS Code website](#).
- Download the installer for Windows.

2. Install VS Code:

- Run the downloaded installer.
- Follow the installation instructions, keep the default settings while following the documentation provided in the LMS.

Step 2: Install Git

1. Download Git:

- Go to the [Git website](#).
- Download the Git for Windows installer.

2. Install Git:

- Run the downloaded installer.
- Follow the installation instructions, using the recommended settings while following the documentation provided in the LMS.

Step 3: Set Up GitHub

1. Create a GitHub Account:

- Go to [GitHub](#).
- Sign up for an account.

2. Configure Git with GitHub:

- Open Git Bash (installed with Git).
- Set your username
- Set your email
- Generate an SSH key.
- Add the SSH key to your GitHub account.

Step 4: Install Python

1. Download Python:

- Go to the [Python website](#).

- Download the latest version of Python for Windows.

2. Install Python:

- Run the downloaded installer.
- Check the box "Add Python to PATH".
- Follow the installation instructions.

Step 5: Install MySQL

1. Download MySQL:

- Go to the [MySQL website](#).
- Download the MySQL Installer for Windows.

2. Install MySQL:

- Run the downloaded installer.
- Choose the "Developer Default" setup type.
- Follow the installation instructions, including setting up a root password.
- Configure MySQL Server and MySQL Workbench as part of the installation process using the documentation provided in LMS accordingly.

Step 6: Verify Installations



```
MINGW64:/c/Users/Admin

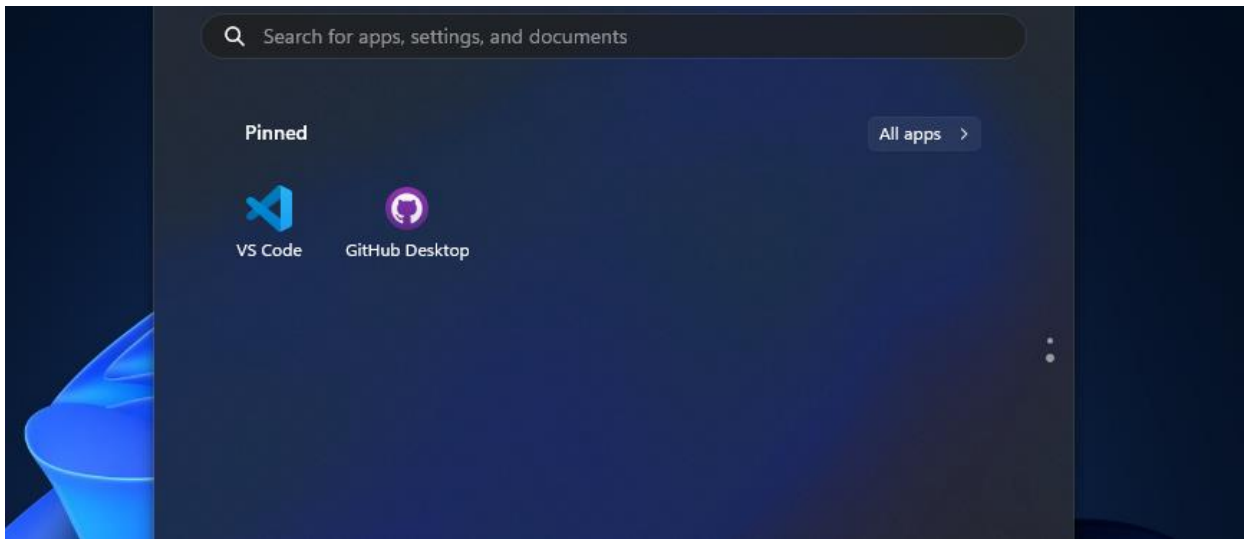
njeri.wekesa@njeri MINGW64 ~
$ git --version
git version 2.44.0.windows.1

njeri.wekesa@njeri MINGW64 ~
$ python --version
Python 3.12.2

njeri.wekesa@njeri MINGW64 ~
$ pip --version
pip 24.0 from C:\Users\Admin\pyproj\my_env\Lib\site-packages\pip (python 3.12)

njeri.wekesa@njeri MINGW64 ~
$ mysql --version
C:\Program Files\MySQL\MySQL Server 8.0\bin\mysql.exe Ver 8.0.37 for Win64 on x86_64 (MySQL Community Server - GPL)

njeri.wekesa@njeri MINGW64 ~
$
```



Challenges and troubleshooting

The success of this setup was aided by prompting Chat Gpt to troubleshoot the challenges I had in configuring MySQL.

The challenge that I faced in setting up MySQL occurred because I had previously uninstalled an older version.

Through prompt engineering, I discovered that the problem was with the program files belonging to the old version I had uninstalled, that were still in my C:\ drive. I then proceeded to delete them, thereby ensuring a successful re-installation and re-configuration of MySQL Server's latest version.