

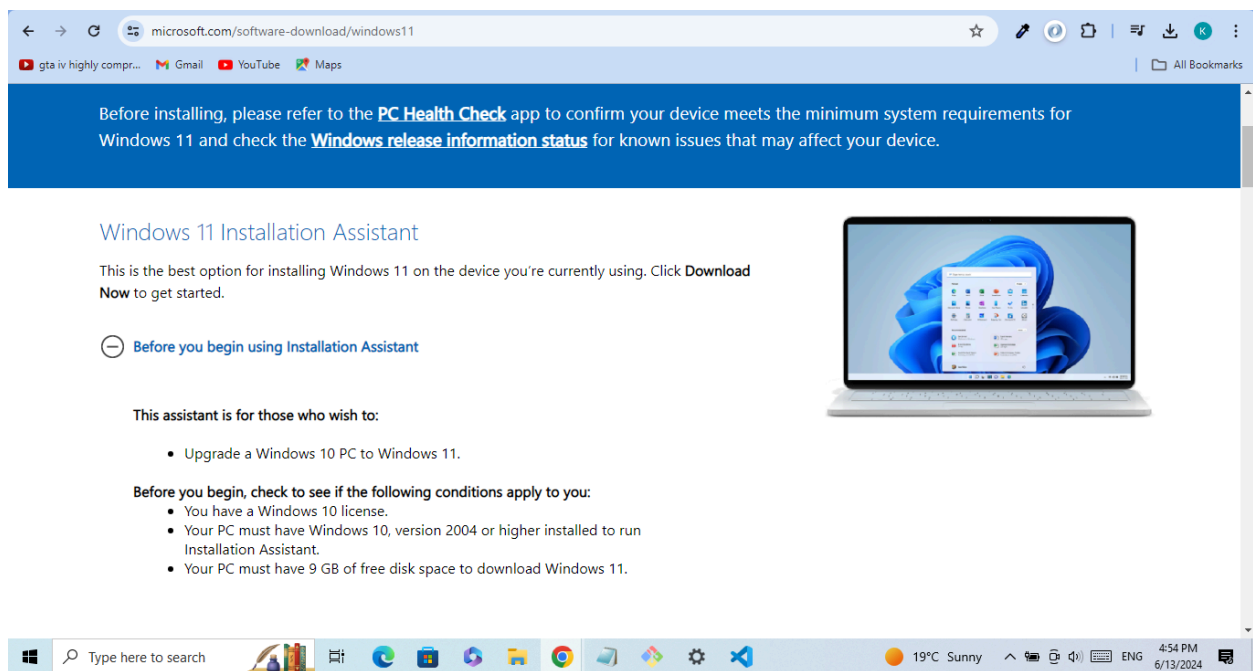
ASSIGNMENT 1

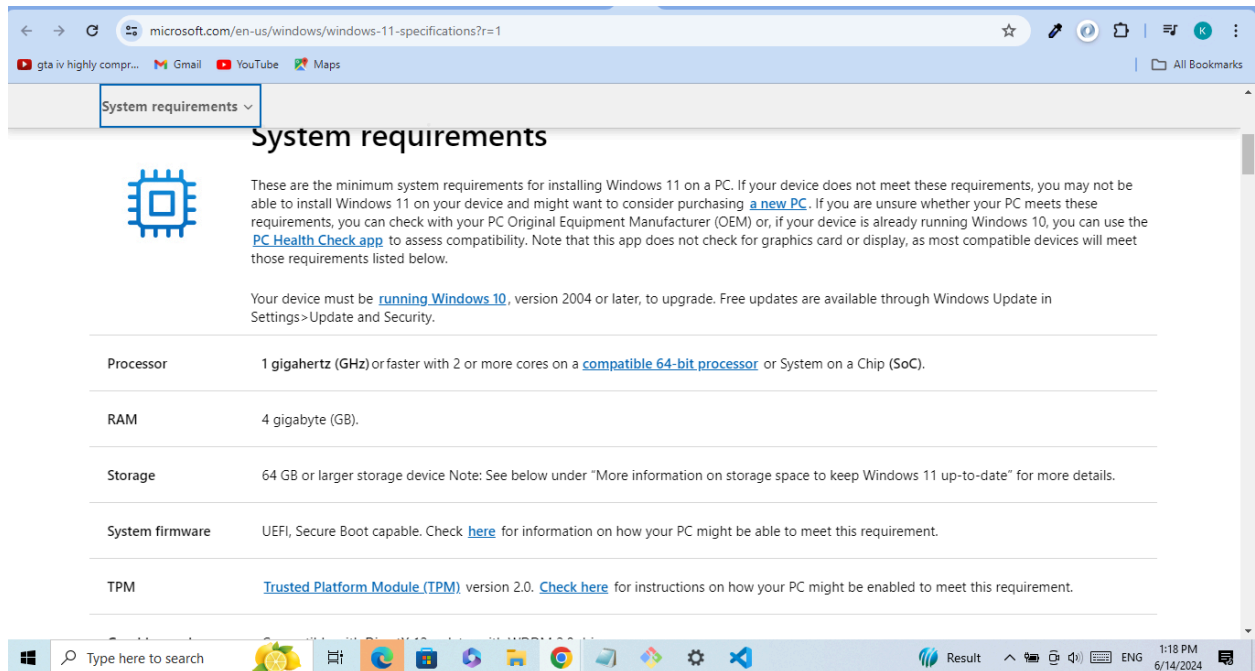
MY SETUP DOCUMENT

1. The operating system that I chose is Microsoft Windows and I am currently running on Windows 10. Windows is one of the most popular operating systems and is usually preloaded in many operating systems.

To download windows 11, I navigated my way to

<https://www.microsoft.com/software-download/windows11> official page. I started off by reading the requirements for downloading windows 11 on my pc and unfortunately my pc does not meet the specifications.





2.To install a Text Editor or Integrated Development Environment suitable for my programming languages and workflow.I navigated my way to <https://code.visualstudio.com/Download> to download Visual Studio Code.

Once I landed on the page I clicked on the windows icon to download for windows and after I clicked I got an option proceed to ask which drive I want to store the file into.Ran the installer in C:\Users{Username}

AppData\Local\Programs\Microsoft VS Code. Followed the prompts and next thing I know it VS Code was successfully installed on my PC and I took the liberty to explore Visual Studio Code and added Extensions to enhance the functionality of the editor.

Download Windows 11

There are 3 options below for installing Windows 11. Choose the best option for you.

Before installing, please refer to the Windows 11 installation requirements for your device.

Windows 11 Installation Assistant

This is the best option for installing Windows 11. Now to get started.

Before you begin using Installation Assistant

Download Now

Create Windows 11 Installation Media

Setup - Microsoft Visual Studio Code (User)

Select Destination Location

Where should Visual Studio Code be installed?

Setup will install Visual Studio Code into the following folder.

To continue, click Next. If you would like to select a different folder, click Browse.

C:\Users\korca\AppData\Local\Programs\Microsoft VS Code

Browse...

At least 376.2 MB of free disk space is required.

< Back Next > Cancel

code.visualstudio.com/download

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Free and built on open source. Integrated Git, debugging and extensions.

Windows

Windows 10, 11

User Installer x64 Arm64

System Installer x64 Arm64

.zip x64 Arm64

CLI x64 Arm64

.deb

Debian, Ubuntu

.rpm

Red Hat, Fedora, SUSE

.deb x64 Arm32 Arm64

.rpm x64 Arm32 Arm64

.tar.gz x64 Arm32 Arm64

Snap Snap Store

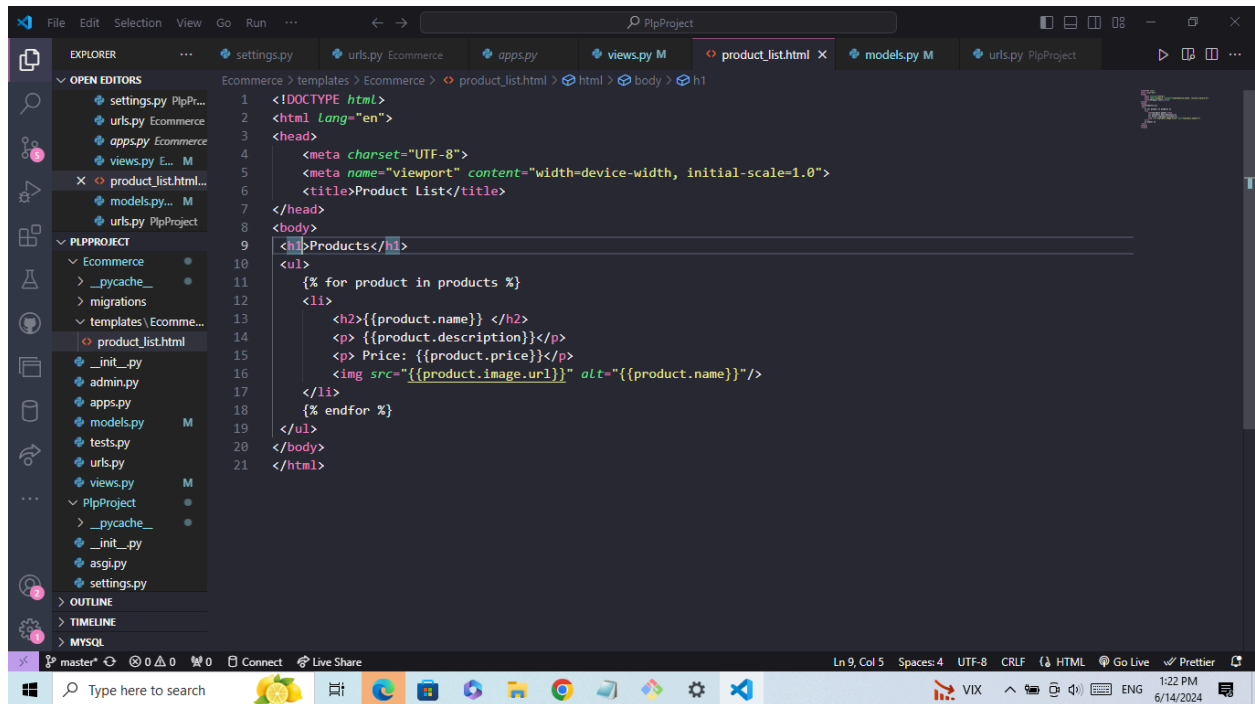
CLI x64 Arm32 Arm64

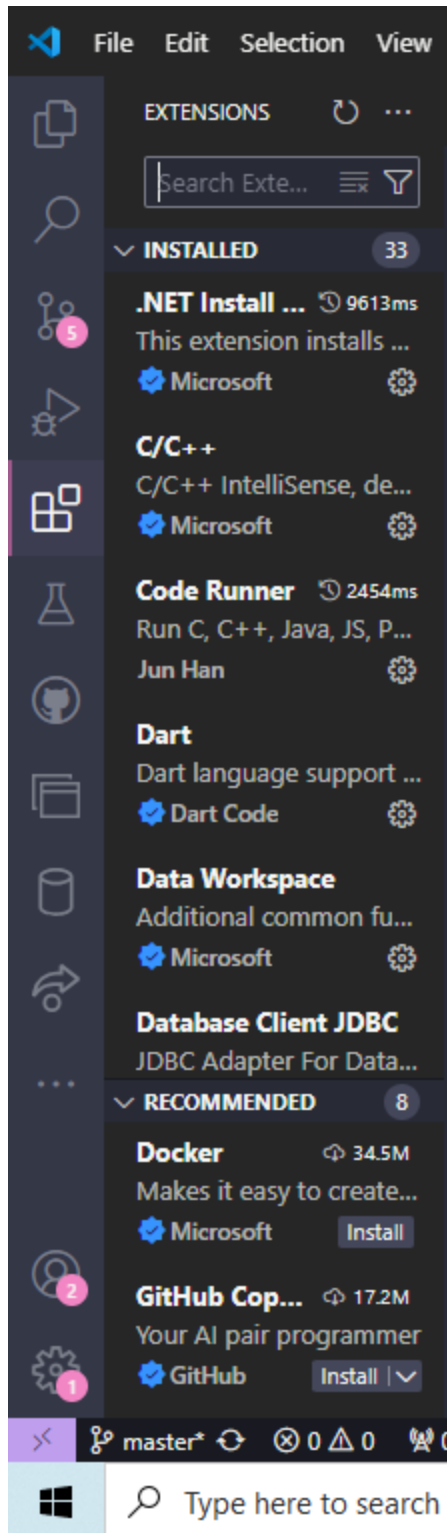
Mac

macOS 10.15+

.zip Intel chip Apple silicon Universal

CLI Intel chip Apple silicon





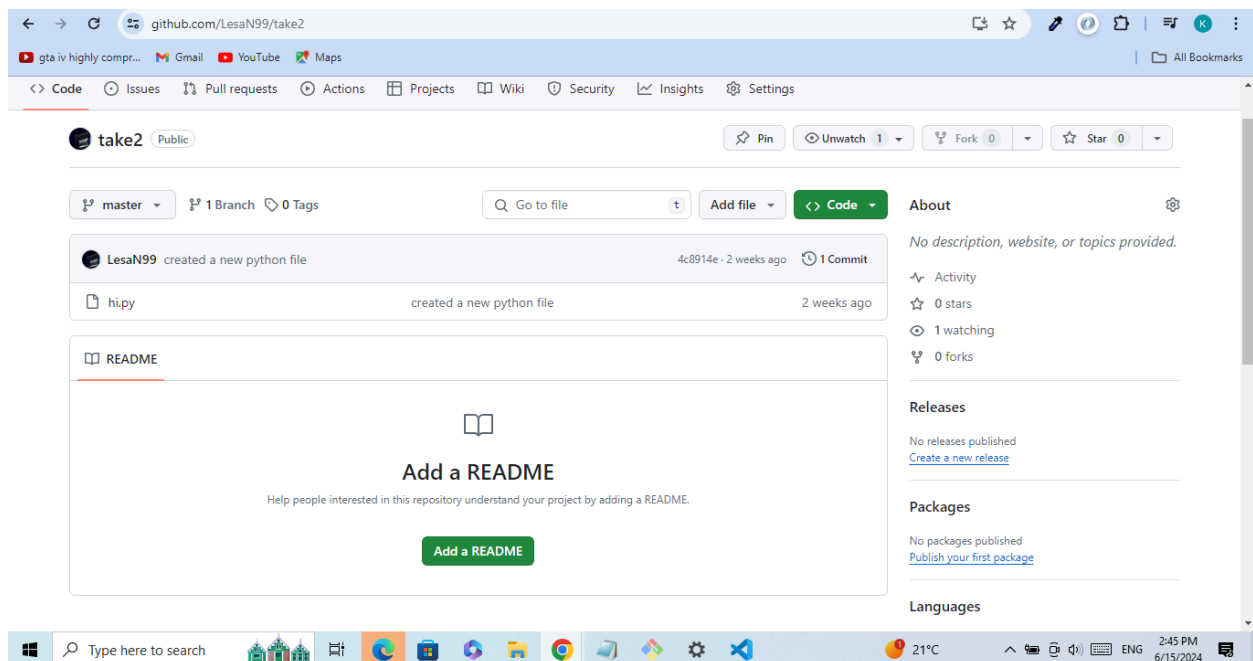
3.To setup Git as my Version Control System I navigated to <https://www.git-scm.com/download/win> Git official page, once landed on the page I clicked on the 'Click here to download' windows option.I downloaded Git for my os,

then ran it as admin and kept clicking next until installation.

Once installed I had to cd into the drive I want to work in, create a directory with a name, cd into the directory I created. I initialized vi hi.py, pressed the letter 'i' for insert, created a code inside the file.

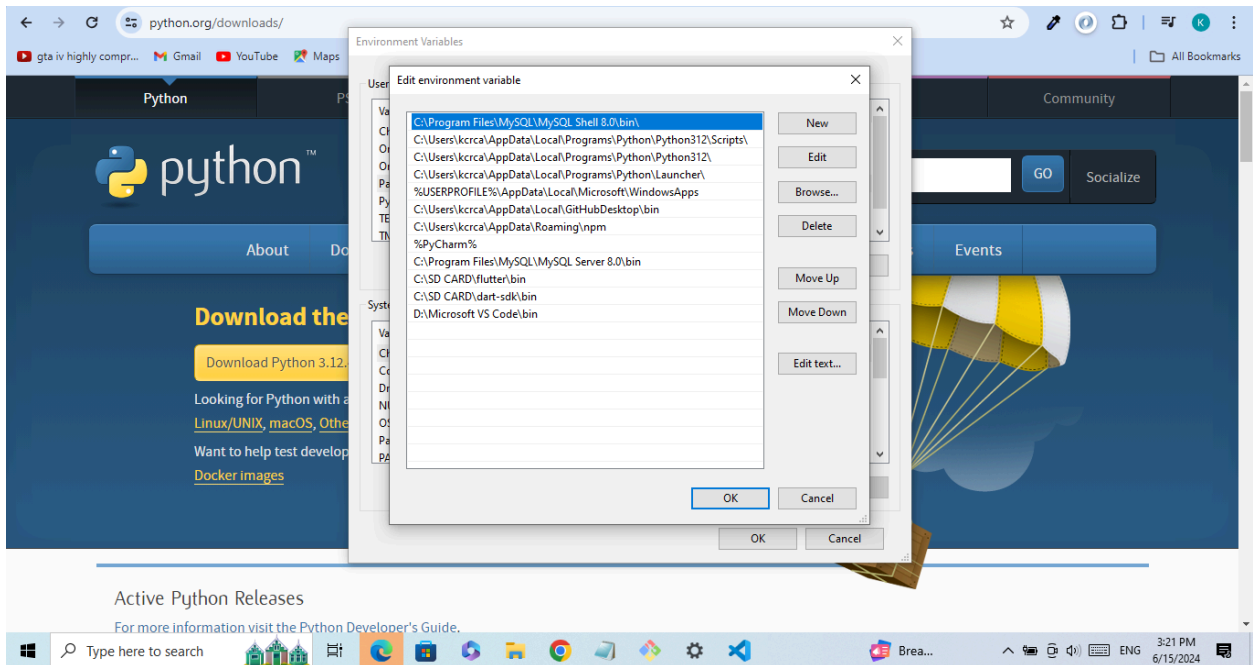
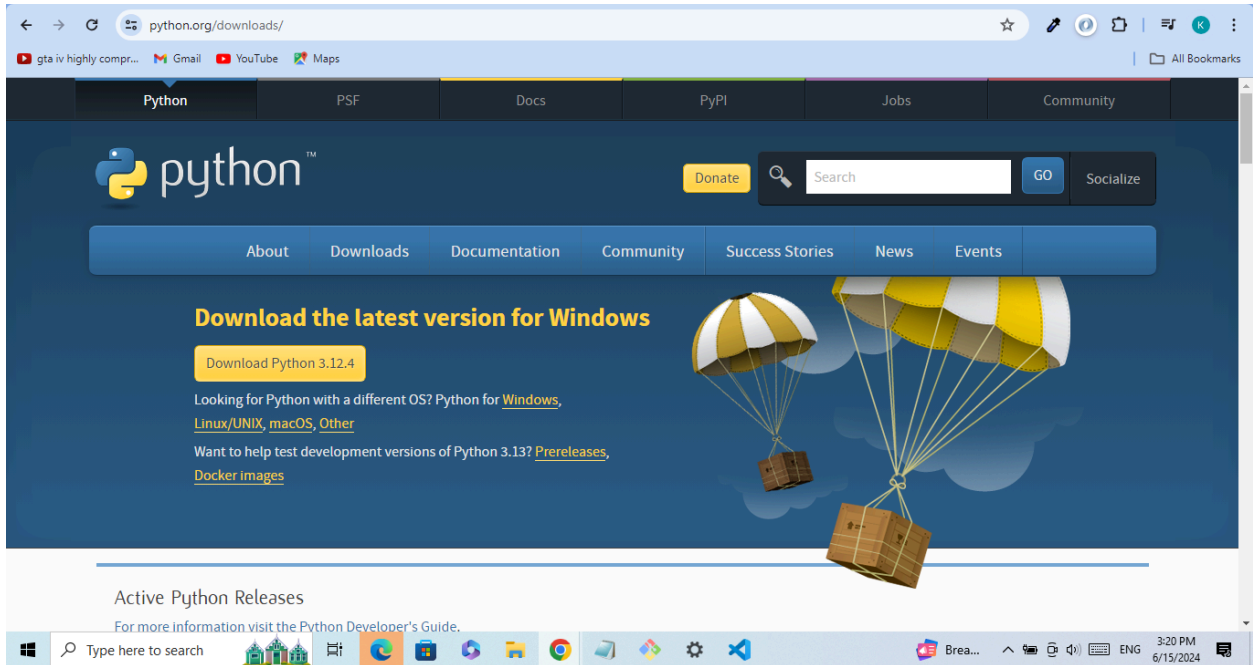
I then esc +q +w to go back to the terminal. I already have an existing Github account so I navigated my way to Github to create a new repository

I proceeded to configure git with my user information by opening a command prompt and set my username and email address. I verified my Git configuration by running git config --global --list. I made a git initialization, git add all so that all files can be added and then I did a git commit and passed in my message, went back to Github to copy the git remote add origin with a Url command and then pasted it in Git. Since my default branch was master instead of main, as the last step I did a git push -u master.



4.To Install Python I navigated to the python official webpage <http://www.python.org>.

Click on the downloads option and then clicked on the the download python latest version 3.12.4 for windows.After the downloading process was done, I checked the “Add Python to Path” box, clicked install now, installed it and then verify the installation I went to command prompt, typed python - -version and got the version I installed. I went to environmental variables to also check if Python was added to my path.



```
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.
```

```
C:\WINDOWS\system32>python --version
Python 3.12.3
```

```
C:\WINDOWS\system32>
```

5. I did not install Python (pip) because I did not have any problems with it, instead when I ran the pip --version command, it ran successfully. Pip is the default package manager for Python and it is usually installed with it, so that might be the case to why I did not get problems and did not have to manually download it either.

6. To download MySQL installer I navigated to the MySQL official download page and selected and downloaded the full installer for windows. To install MySQL I ran the download as administrator, chose the Custom option on the setup type, selected the MySQL server and other desired products to install and then went through the installation steps to set up MySQL, including getting a root password. I set up MySQL as a windows service and left it on the 3306 default port. After the installation was done, I verified by starting the MySQL server.

```
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.37 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| plp_academy |
| sakila |
| sys |
| world |
+-----+
7 rows in set (0.36 sec)

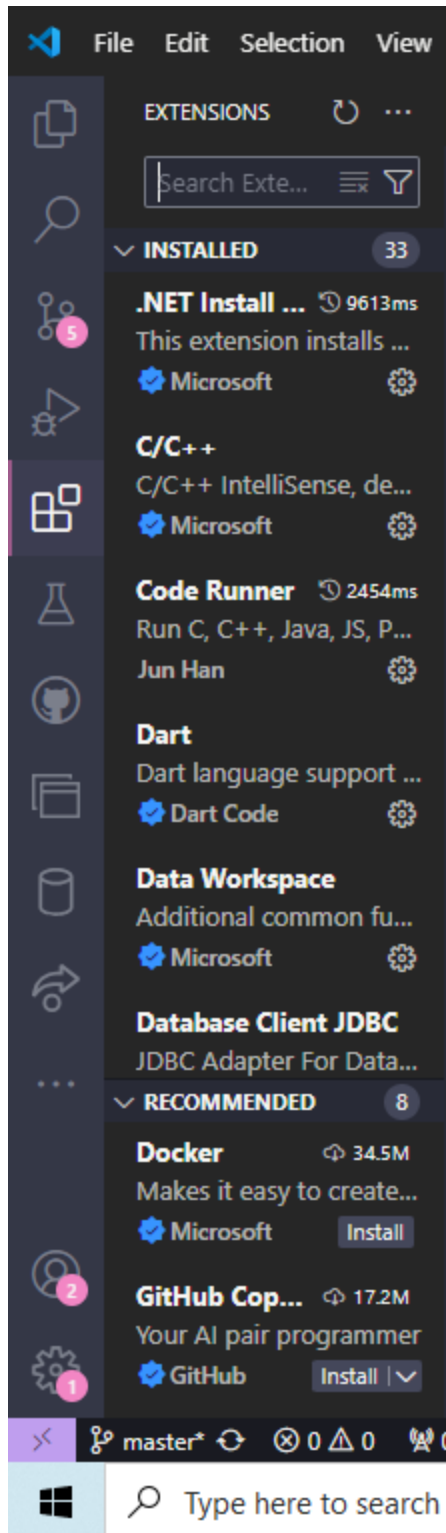
mysql>
```


7. I did not separately set up development environments and virtualization using tools like Docker because I am not familiar with doing so but I am yet to learn on how to do it and what are the benefits of it.

```
C:\WINDOWS\system32>docker --version
'docker' is not recognized as an internal or external command,
operable program or batch file.

C:\WINDOWS\system32>
```

8. To enhance functionality on my text editor, I clicked on extensions (square to the left side) in Visual Studio Code and started off by doing a search for Prettier extension and clicking install. Then in my preferences, I searched for “Format” and checked Format on paste and Format on save and searched for “Default Formatter” and selected Prettier - Code formatter or [esbenp.prettier-vscode](#) and then rebooted VS Code and now I am enjoying the auto-formatting. I proceeded to add other extensions like Dracula, Live server, Live show and many more.



DIFFICULTIES I ENCOUNTERED DURING THE SETUP

- Challenge number 1 would have to be the setting up of Git. The downloading process was smooth but having to initialize the process on the terminal proved difficult since it

was my first time doing it and I found myself passing wrong commands during the process. To overcome the challenge I watched some YouTube tutorials and then proceeded to watch the Power Learn Project environmental setup session conducted by David Ouma recording on how to go about setting it up and the configuration process.

- Challenge number 2 would have to be the configuring of a DataBase. The downloading of MySQL, Dart and Flutter was really long and confusing . There are just so many options to select and edit and if you make one mistake you will find yourself having to manually install packages , since not doing so will result in discrepancies in efficiently running your DataBase. The confusing process made me wait a day or 2 before downloading anything just to make sure I did everything accordingly so I took the means to watch recordings on how to go about setting everything up and everything was successful.
- Challenge number 3 would have to be the downloading of windows 11 on my PC. When I was about to download I took the liberty of checking the requirements needed and tried to clear some space on my local drive but unfortunately it was not a successful process. To overcome this I decided to continue to operate on windows 10 and so far I have not encountered any difficulties with the installation of various packages and apps.