

1. Select Your Operating System (OS): Choose an operating system that best suits your preferences and project requirements. Download and Install Windows 11.
11. <https://www.microsoft.com/software-download/windows11>

My machine came with windows 11 already installed

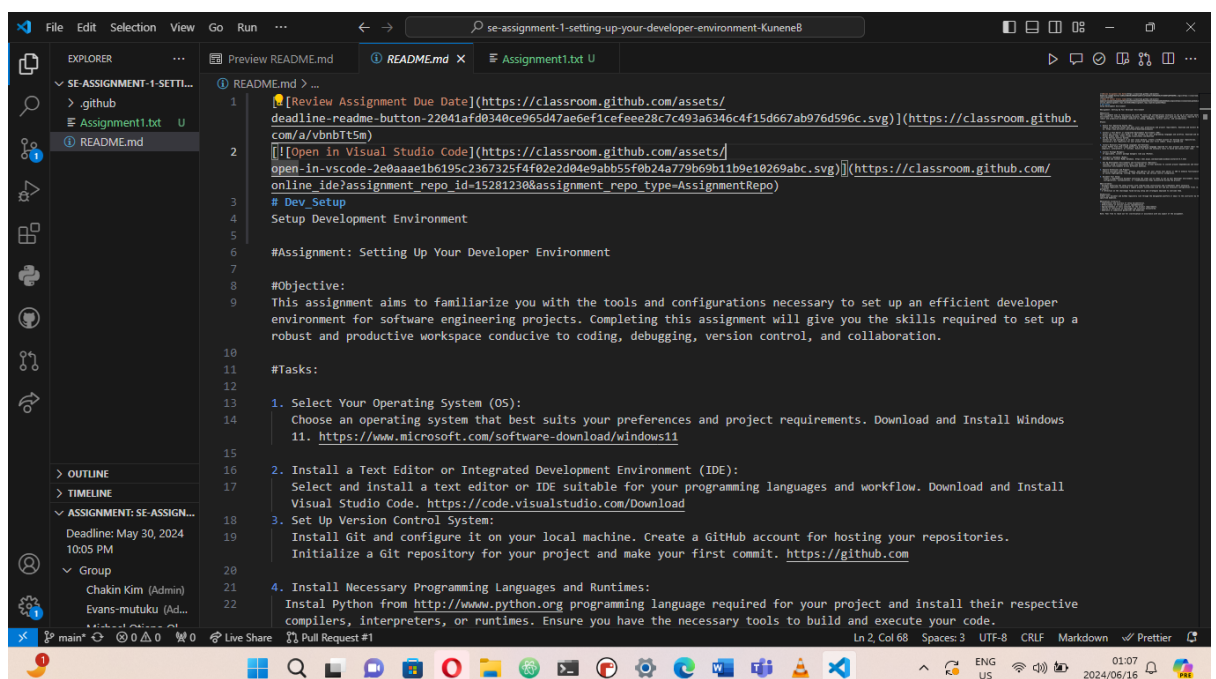
Windows specifications

Edition	Windows 11 Home Single Language
Version	22H2
Installed on	2023/07/08
OS build	22621.3593
Experience	Windows Feature Experience Pack 1000.22700.1003.0
Microsoft Services Agreement	
Microsoft Software License Terms	

Support

Manufacturer	Mecer
Phone	011-2371919
Hours	8:00~17:00
Website	Online support

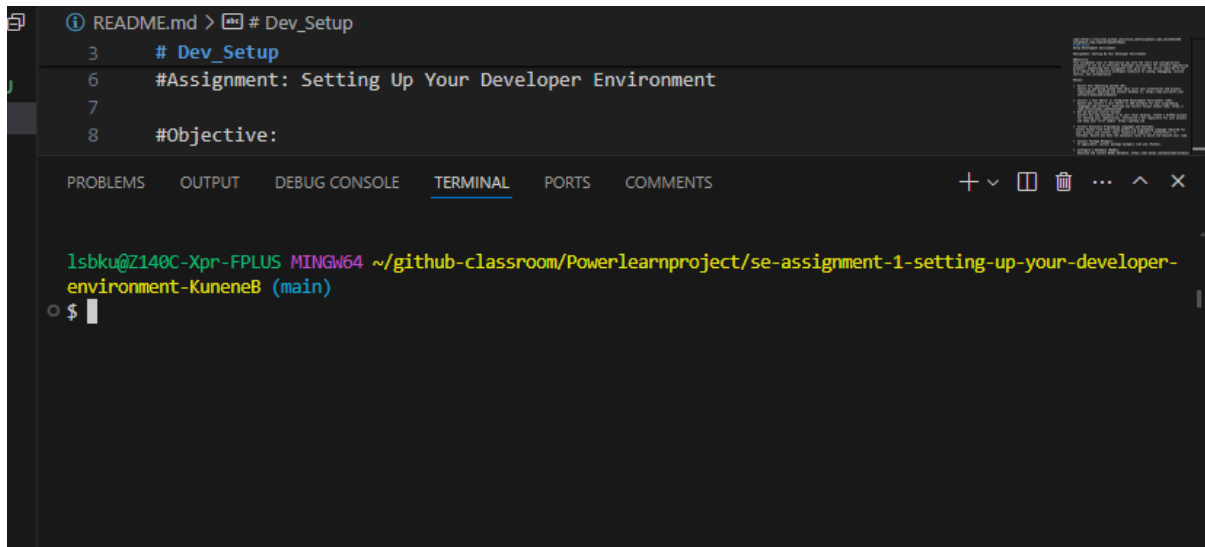
2. Install a Text Editor or Integrated Development Environment (IDE): Select and install a text editor or IDE suitable for your programming languages and workflow. Download and Install Visual Studio Code. <https://code.visualstudio.com/Download>



The screenshot shows the Visual Studio Code interface with a README.md file open. The file contains instructions for setting up a developer environment, including selecting an operating system, installing a text editor or IDE, setting up version control, and installing necessary programming languages and runtimes.

```
1  [Review Assignment Due Date](https://classroom.github.com/assets/
2  deadline-readme-button-22041afd0340ce965d47ae6ef1cefeee28c7c493a6346c4f15d667ab976d596c.svg))(https://classroom.github.
3  com/a/vbmbTt5m)
4  [[Open in Visual Studio Code](https://classroom.github.com/assets/
5  open-in-vscode-2e0aaae1b6195c2367325f4f02e2d04e9abb55f0b24a779b69b11b9e10269abc.svg))(https://classroom.github.com/
6  online_id?assignment_repo_id=15281230&assignment_repo_type=AssignmentRepo)
7  # Dev_Setup
8  Setup Development Environment
9
10 #Assignment: Setting Up Your Developer Environment
11
12 #Objective:
13 This assignment aims to familiarize you with the tools and configurations necessary to set up an efficient developer
14 environment for software engineering projects. Completing this assignment will give you the skills required to set up a
15 robust and productive workspace conducive to coding, debugging, version control, and collaboration.
16
17 #Tasks:
18 1. Select Your Operating System (OS):
19 Choose an operating system that best suits your preferences and project requirements. Download and Install Windows
20 11. https://www.microsoft.com/software-download/windows11
21
22 2. Install a Text Editor or Integrated Development Environment (IDE):
23 Select and install a text editor or IDE suitable for your programming languages and workflow. Download and Install
24 Visual Studio Code. https://code.visualstudio.com/Download
25
26 3. Set Up Version Control System:
27 Install Git and configure it on your local machine. Create a GitHub account for hosting your repositories.
28 Initialize a Git repository for your project and make your first commit. https://github.com
29
30 4. Install Necessary Programming Languages and Runtimes:
31 Install Python from http://www.python.org programming language required for your project and install their respective
32 compilers, interpreters, or runtimes. Ensure you have the necessary tools to build and execute your code.
```

3. Set Up Version Control System: Install Git and configure it on your local machine. Create a GitHub account for hosting your repositories. Initialize a Git repository for your project and make your first commit. <https://github.com>



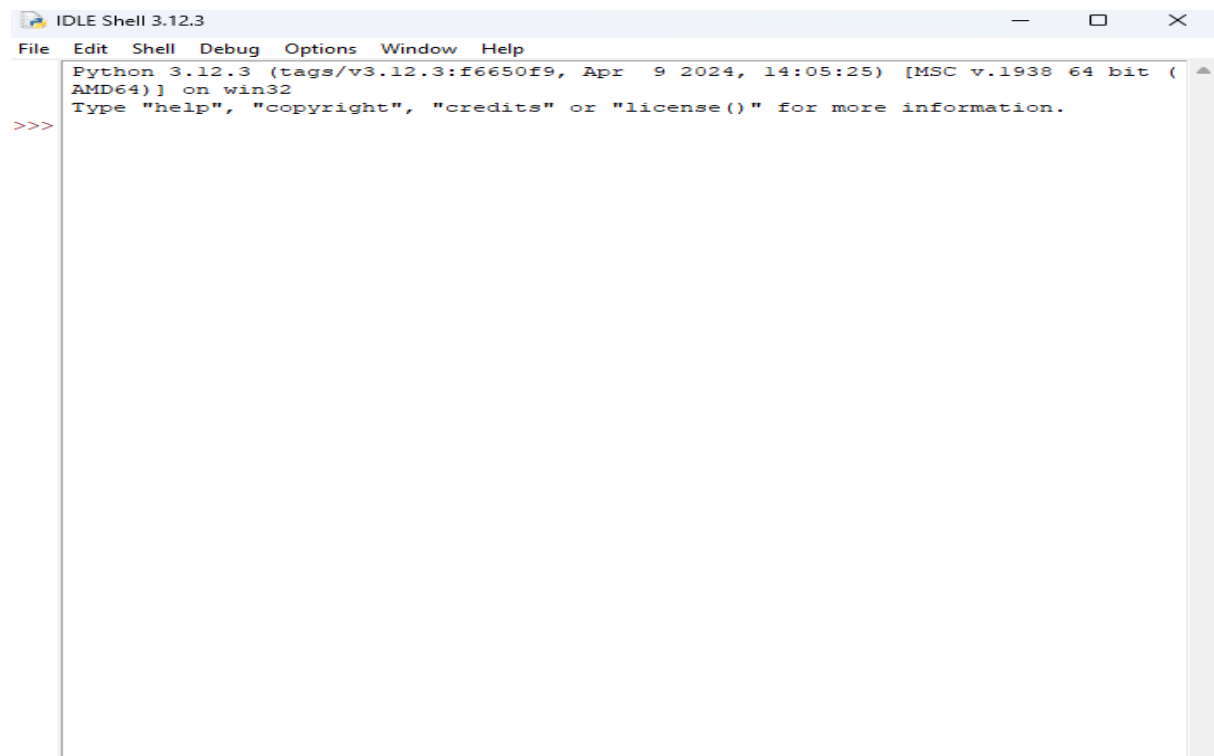
The screenshot shows a VS Code editor with a README.md file open. The file content is as follows:

```
3 # Dev_Setup
6 #Assignment: Setting Up Your Developer Environment
7
8 #Objective:
```

Below the editor, the TERMINAL tab is active. It shows the following text:

```
lsbku@Z140C-Xpr-FPLUS MINGW64 ~/github-classroom/Powerlearnproject/se-assignment-1-setting-up-your-developer-environment-KuneneB (main)
$
```

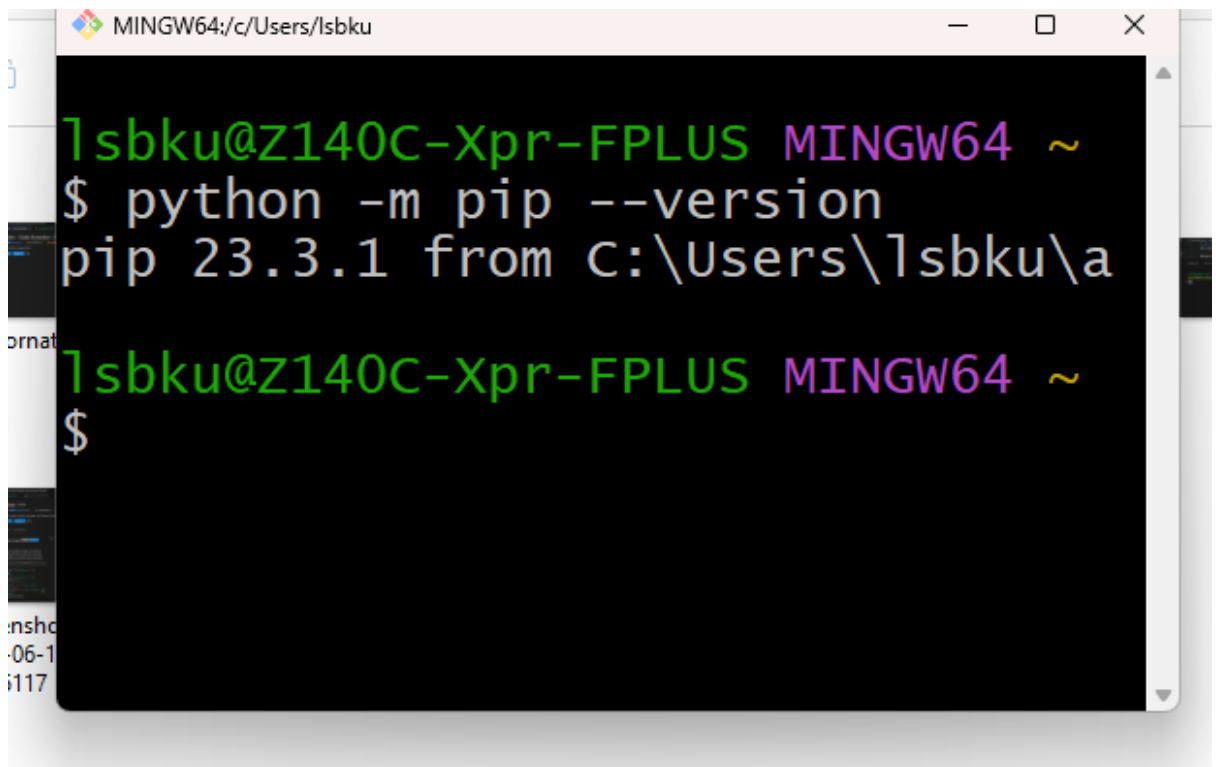
4. Install Necessary Programming Languages and Runtimes: Instal Python from <http://www.python.org> programming language required for your project and install their respective compilers, interpreters, or runtimes. Ensure you have the necessary tools to build and execute your code.



The screenshot shows a Python IDLE Shell window. The title bar reads "IDLE Shell 3.12.3". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The shell text is as follows:

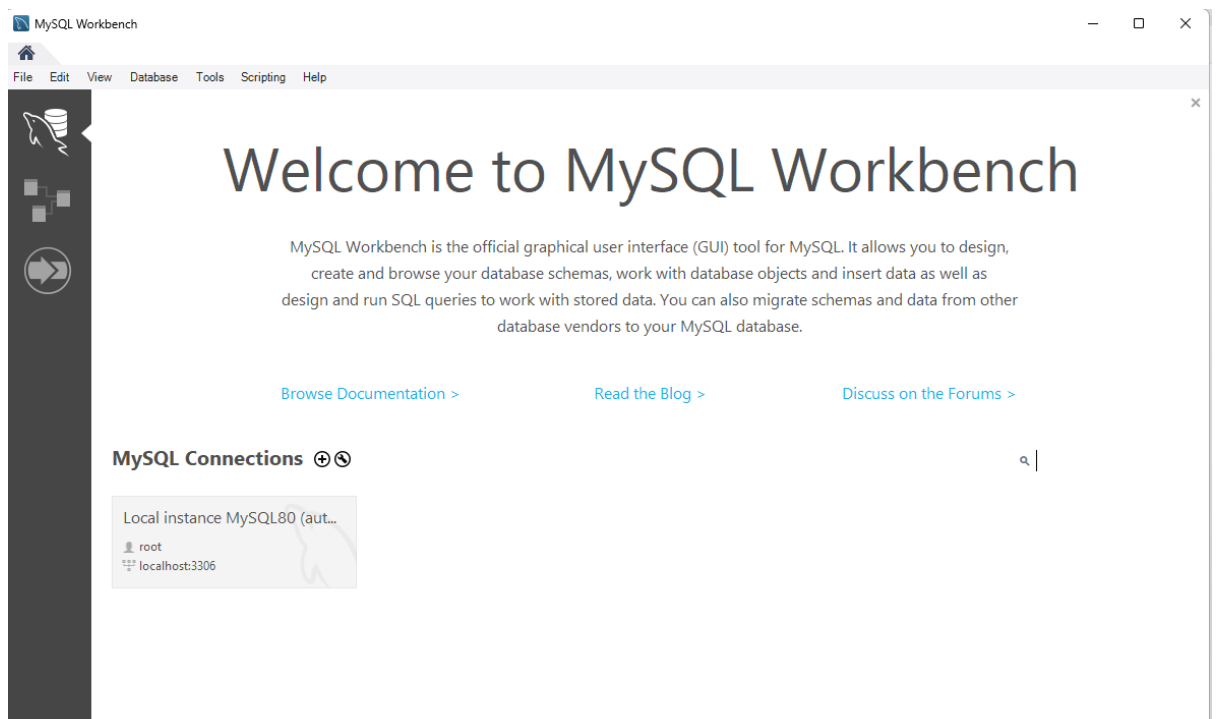
```
Python 3.12.3 (tags/v3.12.3:f6650f9, Apr 9 2024, 14:05:25) [MSC v.1938 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

5. Install Package Managers: If applicable, install package managers like pip (Python)

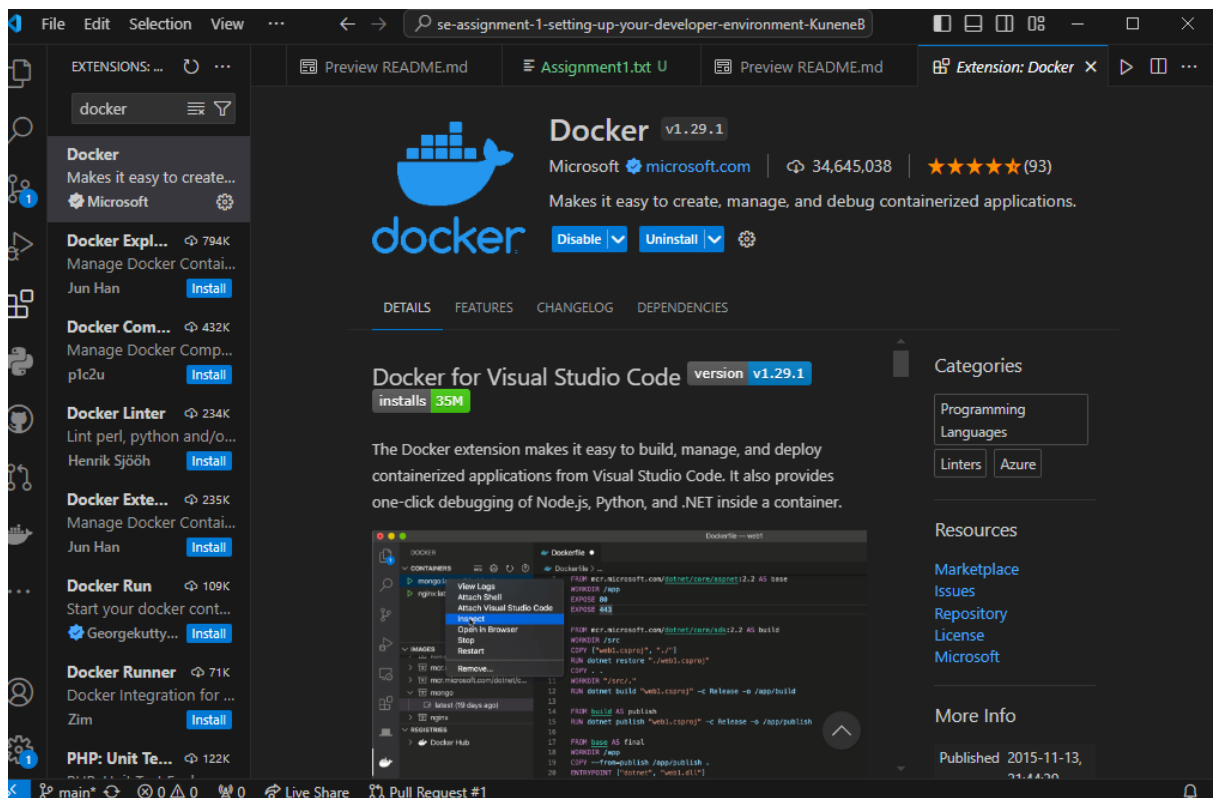


```
MINGW64:/c/Users/lsbku
lsbku@Z140C-Xpr-FPLUS MINGW64 ~
$ python -m pip --version
pip 23.3.1 from C:\Users\lsbku\...
lsbku@Z140C-Xpr-FPLUS MINGW64 ~
$
```

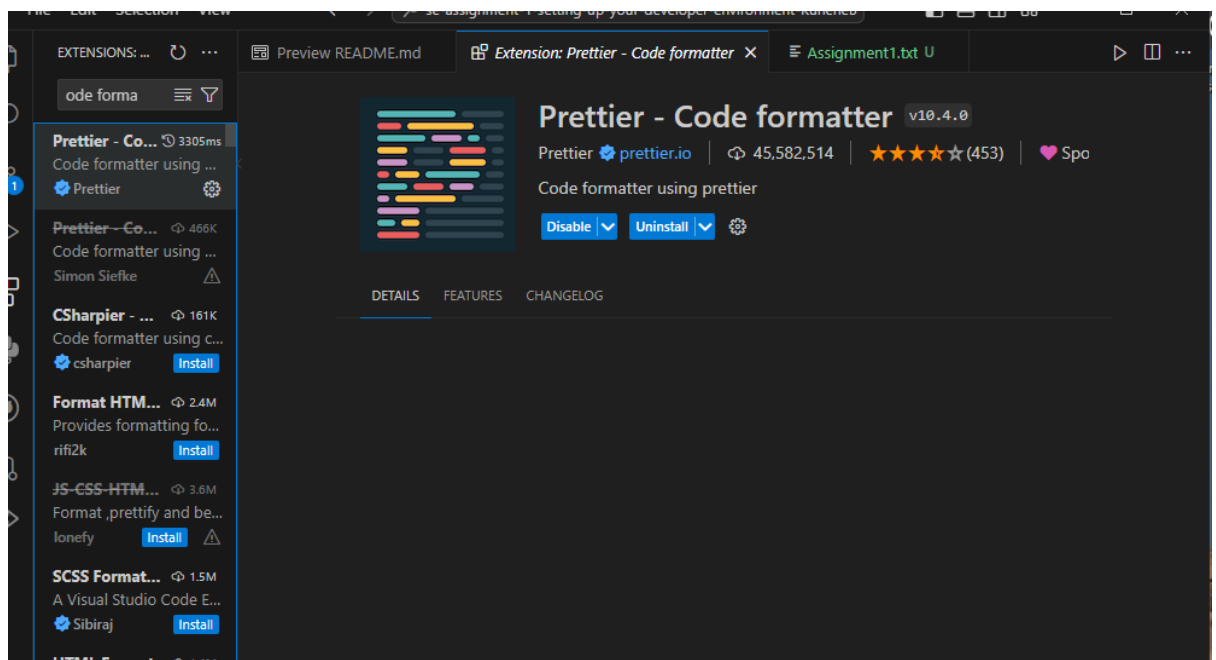
6. Configure a Database (MySQL): Download and install MySQL database. <https://dev.mysql.com/downloads/windows/installer/5.7.html>



7. Set Up Development Environments and Virtualization (Optional): Consider using virtualization tools like Docker or virtual machines to isolate project dependencies and ensure consistent environments across different machines.



8. Explore Extensions and Plugins: Explore available extensions, plugins, and add-ons for your chosen text editor or IDE to enhance functionality, such as syntax highlighting, linting, code formatting, and version control integration.



Summary

I followed the instructor's steps in installing most of the softwares, as a result I didn't encounter many challenges except when it came to MySQL where I was given an alternative link by my fellow learner on a WhatsApp group