ASSIGNMENT: SETTING UP YOUR DEVELOPMENT ENVIRONMENT.

1.SELECTING YOUR OPERATTING SYSTEM

Download and install windows 11:

* Visit the windows page <https://www.microsoft.com/software-download/windows11>.
* Follow the on- screen instruction to download the windows 11 installation assistant.
* Run the installation assistant and follow the prompts to upgrade your system to windows 11.

2.INSTALL A TEXT EDITOR OR INTERGRATED DEVELOPMENT ENVIRONMENT(IDE).

Download and install visual studio code:

* Visit  <https://code.visualstudio.com/Download> and download the latest version of VS code preferably version 1.90
* Run the installer and follow the prompts to complete the installation.

3.SET UP VERSION CONTROL SYSTEM.

Download and Install Git:

* Visit [https://github.com](https://github.com/)
* Download the installer for Windows.
* Run the installer and follow the default settings to install Git.

Create a GitHub Account:

* Visit [https://github.com](https://github.com/).
* Fill in the required details to create your account.

Initialize a Git Repository:

* Open a terminal or Git Bash.
* Navigate to your project directory.
* Run the following commands to initialize a repository and make the first commit

Some of the commands:

git init

git add .

git commit -m "Initial commit"

git remote add origin https://github.com/yourusername/your-repo-name.git

git push -u origin master

4.INSTALL NECESSARY PROGRAMMING LANGUAGES AND RUNTIMES.

Download and install python:

* Visit [http://wwww.python.org](http://wwww.python.org/)
* Download the latest version foe windows
* Run the installer, ensuring you check the box to “add python to path”(failure to do so will lead to python not showing on our system I had a hard time with this one)
* Follow the prompts to complete the installation.

Verify python installation:

* Open a terminal or command prompt. I used Gitbash.
* Run the following commands.

python --version

pip –version

ensure pip is installed:

* On the gitbash or command prompt
* Run the following command to ensure pip is installed and updated:

python -m ensurepip –upgrade

5.CONFIGURE A DATABASE(MYSQL)

Download and install MySQL:

* Visit <https://dev.mysql.com/downloads/windows/installer/5.7.html>
* Download the MySQL installer for windows
* Run the installer and follow the prompts to install MySQL server and MySQL workbench.

6.EXPLORE EXTENSIONS AND PLUGINS

VS code extensions:

* Open visual studio code
* Go to the extension by clicking on the extensions icon on the activity bar on the side of the window or by pressing ‘ctrl+shift+x’
* Search and install the following extensions:

Python- python extension

Dart- dart extension

Gitlens- gitlens

7.GITHUB REPOSITORY

* Create a sample project and initialize it with Git.
* Include necessary configuration.

SOME CHALLENGES FACED

1. I had a hard time installing some files because of space so ensure that your computer has enough space before stating installation process because it can set you back
2. Some extensions on visual studio code were nor loading properly or failed to install- fixed this by restating visual studio code to ensure that extensions were properly initialized.
3. Facing issues with Git configuration, such as incorrect username/email settings and authentication problems with GitHub- fixed this by Configured Git with the correct username and email using the following commands:
4. Python was installed, but the python and pip commands were not recognized in the command prompt- fixed this by  **ensuring that**  during installation the option to "Add Python to PATH" was selected.
5. Difficulty installing MySQL, encountering errors during the configuration of the server instance- Followed MySQL documentation step-by-step to ensure each installation step was correctly performed.