STEPS TAKEN TO SET UP MY DEVELOPER ENVIRONMENT

INTRODUCTION

A developers environment refers to a set of tools, software, and settings that a programmer uses to write, test and debug a code.

REQUIREMENTS
Set up the following;

a) Microsoft Windows 11
b) Visual Studio Code
c) Create a GitHub account
d) Python
e) My SQL

Microsoft Windows 11

- I had already installed MS Windows prior to the assignment. However, when clicking the link

I ensured my PC met the minimum system requirements for Windows 11, then backed up my important files. I downloaded the Windows 11 installation media from the official Microsoft website and used the Media Creation Tool to create a bootable USB drive. After inserting the USB drive, I restarted my PC and entered the BIOS/UEFI settings to set the USB drive as the primary boot device. My PC booted from the USB drive, and I followed the on-screen instructions to complete the installation, including selecting language, time, and keyboard preferences. Once Windows 11 was installed, I updated all drivers and software and restored my backed-up data.

Visual Studio Code

I began by visiting the official Visual Studio Code website and downloading the installer for my operating system. Once the download was complete, I ran the installer and followed the on-screen instructions, agreeing to the terms and conditions. I chose the installation location and selected the additional tasks, such as creating a desktop icon and adding VS Code to the PATH. After the installation process finished, I launched Visual Studio Code and customized the settings according to my preferences. Finally, I installed the necessary extensions for my development work and configured the editor to suit my needs.

GitHub Account

I started by visiting the GitHub website and clicking on the "Sign up" button. I entered my email address, created a username, and chose a strong password. After verifying my email address through the confirmation link sent to my inbox, I completed the setup by following the guided prompts, including selecting my plan and configuring any additional settings. Once my account was created, I personalized my profile by adding a profile picture and a bio.

Python

I went to the official Python website and navigated to the download section. There, I selected the appropriate installer for my operating system and downloaded it. After the download was complete, I ran the installer and followed the on-screen instructions. I made sure to check the option to add Python to the PATH before proceeding with the installation. Once the installation was finished, I opened a command prompt and typed `python --version` to verify that Python was installed correctly.

My SQL

I visited the official MySQL website and navigated to the download section. There, I selected the MySQL Community Server and downloaded the installer suitable for my operating system. After the download was complete, I ran the installer and followed the on-screen instructions. During the setup process, I chose the installation type and configured the server, including setting up the root password and selecting the default authentication method. Once the installation was complete, I verified the installation by opening the MySQL Command Line Client and logging in with the root credentials.

CHALLENGES ENCOUNTERED

I encountered a few challenges during the process. Initially, I had trouble with the MySQL installation because the default authentication method was not compatible with some of my applications. To resolve this, I re-ran the installer and selected the legacy authentication method during the configuration step.

Additionally, while installing Python, I forgot to check the option to add Python to the PATH, which resulted in the command prompt not recognizing Python commands. I fixed this by manually adding Python to the PATH through the system environment variables settings.

Finally, while creating my GitHub account, the verification email didn't arrive in my inbox. I resolved this issue by checking my spam folder and ensuring my email settings allowed messages from GitHub.