This document outlines the steps I took to set up a developer environment for software development. This guide includes configurations, customizations, and troubleshooting I encountered during the process.

**Software and Tools:**

* Operating System: Windows 10
* Text Editor/IDE: Visual studio code
* Version Control System (VCS): Git
* Additional Tools: Python

**Step-by-Step Setup:**

**1. Install Operating System:**

* Installed Windows 10 on my local machine.

**2. Install Text Editor/IDE:**

1. Downloading and installing visual studio code from the official website  
   . <https://code.visualstudio.com/Download>

**3. Install Git:**

* Downloading and installing Git for my operating system following the official guide: <https://www.git-scm.com/downloads>.
* Opening a terminal window and verifying the installation by running git --version.

**4. Configure Git:**

* Setting up my username and email for Git commits:

Bash

git config --global user.name "[Your Name]"

git config --global user. email "[Your Email Address]"

**5. Install Additional Tools:**

* Downloading and installing python from [http://wwww.python.org](http://wwww.python.org/)

6.C**onfigure a Database (MySQL):** Downloading and installing MySQL.

**7. Sample Project Setup:**

* Opened a terminal window and navigated to my desired project directory.
* Initialized a Git repository using git init.
* Created a basic sample project structure with relevant files (e.g., index.html, main.py).

**8. Create a. gitignore File:**

* Created a file named. gitignore in the project root directory.
* Added patterns of files or folders I want Git to ignore during version control.

**9. Configure Text Editor/IDE:**

* Installing necessary extensions for my visual studio code IDE to enhance development experience.

**Screenshots:**

* (Include screenshots where necessary, illustrating installation steps or configuration options)

**Troubleshooting:**

* Difficulty while installing MySQL so I researched alternative installation methods from various online resources.

**Reflection on Challenges:**

* + Difficulty installing MySQL: I Researched alternative installation methods from online resources.
  + Unfamiliarity with Git commands: Utilized online tutorials and cheat sheets for reference.
  + Choosing the appropriate tools: Researched popular tools for my development focus and their functionalities.

**GitHub Repository:**

* (Push your sample project with the. gitignore file (if created) to a public GitHub repository)