**1. Download and Install Windows 11**

1. Visited the [Windows 11 Download Page](https://www.microsoft.com/software-download/windows11).
2. Downloaded the installation media by clicking the "Download Now" button.
3. Used the installation media to install Windows 11, ensuring the system met the minimum requirements.

**2. Install Visual Studio Code**

1. Visited the [Visual Studio Code Download Page](https://code.visualstudio.com/Download).
2. Selected the appropriate installer for Windows and downloaded it.
3. Ran the installer and followed the setup instructions to complete the installation of Visual Studio Code.

**3. Set Up Version Control System**

**Install Git**

1. Downloaded Git from the [official Git website](https://git-scm.com/downloads).
2. Followed the installation instructions to set up Git on the machine.

**Configure Git and GitHub**

1. Created a GitHub account at [GitHub](https://github.com).
2. Opened Visual Studio Code and installed the Git extension if it wasn't already installed.
3. Configured Git with username and email:

Copy code

git config --global user.name "Khodani-Tod"

git config --global user.email "khodaniliphosa@gmail.com"

1. Initialized a Git repository for the project:

Copy code

git init

1. Made the first commit:

Copy code

git add .

git commit -m "Initial commit"

**4. Install Python**

1. Visited the [Python Download Page](https://www.python.org/downloads/).
2. Downloaded the latest version of Python for Windows.
3. Ran the installer and ensured the option to add Python to the PATH was checked.
4. Verified the installation by typing in the terminal:

Copy code

python --version

**5. Install Package Managers**

1. Installed pip, the Python package manager:

Copy code

python -m ensurepip --upgrade

1. Verified the installation:

Copy code

pip --version

**6. Configure a Database (MySQL)**

1. Visited the [MySQL Download Page](https://dev.mysql.com/downloads/windows/installer/5.7.html).
2. Downloaded and ran the MySQL installer.
3. Followed the setup instructions to install MySQL on the machine.
4. Set up a root password and configured MySQL as a service.
5. Verified the installation by opening the MySQL Command Line Client and logging in with the root password.

**7. Set Up Development Environments and Virtualization (Optional)**

1. Installed Docker from the Docker website.
2. Followed the installation instructions to set up Docker on the machine.
3. Verified the installation:

Copy code

docker --version

**8. Explore Extensions and Plugins**

1. Opened Visual Studio Code.
2. Navigated to the Extensions view by clicking the Extensions icon in the Activity Bar.
3. Searched for and installed the following extensions:
   * Python
   * GitLens
   * Docker
   * MySQL
   * Prettier - Code formatter