**VS CODE**

(visual studio code)

* Visual Studio Code, also commonly referred to as VS Code, is a source-code editor developed by Microsoft for Windows, Linux and macOS
* The first version of VS code was released in 1997
* It is a lightning fast source code editor, perfect for day-to-day use
* It support for hundreds of languages
* VS Code helps you be instantly productive with syntax highlighting, bracket-matching, auto-indentation, box-selection, snippets, and more
* It is an integrated development environment (IDE)

Installation of vs code

1. Go to <https://code.visualstudio.com/> in any browser.
2. Click on the download button and select which operating system is your pc such that whether it is windows,macOS or Linux.
3. Once it is downloaded, run the installer (VSCodeUserSetup-{version}.exe). This will only take a minute.
4. By default, VS Code is installed under C:\Users\{Username}\AppData\Local\Programs\Microsoft VS Code.

Uses of vs code

* **Web Development**
* **Backend Development**
* **Mobile App Development**
* **Data Science and AI**
* **DevOps and Cloud Development**
* **Game Development**
* **IoT (Internet of Things)**
* **Machine Learning**
* **Education and Learning**
* **Scripting and Automation**
* **Collaborative Coding**

Creating a project in vs code

1. **Open VS Code:**

Launch Visual Studio Code after installation.

1. **Create a New Folder:**

Choose or create a folder where you want to store your project. You can create a new folder using your operating system's file explorer or use the following command in the terminal:

mkdir my\_project

1. **Open the Folder in VS Code:**

Use VS Code to open the newly created folder. You can do this by either dragging the folder into the VS Code window or by using the following command in the terminal:

code my\_project

Replace "my\_project" with the actual path to your project folder.

1. **Create Project Files:**

Inside the folder opened in VS Code, you can start creating your project files. For example, you might create HTML, CSS, JavaScript, or other source code files based on your project requirements.

1. Configure Workspace (Optional):

If your project requires specific settings, you can create a settings.json file inside the .vscode folder (create this folder if it doesn't exist). This file can include editor settings, extensions, and other project-specific configurations.

1. **Install Extensions (Optional):**

Depending on your project's requirements, you may want to install extensions from the Visual Studio Code marketplace. Extensions can provide additional language support, debugging tools, and other features. You can access the Extensions view by clicking on the Extensions icon in the Activity Bar on the side.

1. Initialize Version Control (Optional):

If you are using version control (e.g., Git), you can initialize your project as a repository. Use the following commands in the terminal:

git init

Then, you can start tracking changes and committing your code.

1. Start Coding