1. **Installation of VS Code on Windows 11:**

Visit the official Visual Studio Code website.

Click the download button for Windows to get the installer.

Once the download is complete, run the installer (usually named “VSCodeSetup-{version}.exe”).

Accept the license agreement.

Choose the installation location (you can use the default or select a different folder).

Optionally, select additional tasks like creating a desktop icon or adding VS Code to your PATH.

Click “Install” to complete the installation.

Launch VS Code either immediately or later from the Start Menu or desktop icon1.

1. **2.First-time Setup:**

After installation, launch VS Code.

Customize it by installing extensions (e.g., for specific languages or tools) from the VS Code Marketplace.

Explore settings (File > Preferences > Settings) to adjust themes, font size, and keybindings.

1. **3.User Interface Overview:**

Activity Bar: Provides quick access to different functionalities (e.g., Explorer, Source Control, Extensions).

Side Bar: Contains panels like Explorer (for files and folders), Search, and Extensions.

Editor Group: Displays open files or editors.

Status Bar: Shows information like line/column number, Git status, and language mode.

1. **4.Command Palette:**

Access with Ctrl+Shift+P).

Perform tasks like changing themes, running commands, or installing extensions.

1. **5.Extensions in VS Code:**

Extensions enhance functionality (e.g., language support, debugging tools).

Find and install extensions from the Marketplace.

Essential extensions for web development: “Live Server,” “ESLint,” and “Prettier.”

1. **6.Integrated Terminal:**

Open with Ctrl+Backtick (or Cmd+Backtick on macOS).

Advantages: Seamless integration, no need for an external terminal.

1. **7.File and Folder Management:**

Create files/folders in Explorer (Side Bar).

Navigate between files using the Explorer or tabs.

Use keyboard shortcuts (e.g., Ctrl+Tab) to switch between open files.

1. **8.Settings and Preferences:**

Access settings via File > Preferences > Settings.

Change the theme: Search for “Color Theme” in settings.

Adjust font size: Search for “Font Size” in settings.

Customize keybindings: Search for “Keybindings” in settings.

1. **9.Debugging in VS Code:**

Set breakpoints in your code.

Create a launch configuration (e.g., for Node.js, Python).

Use the Debug panel (Activity Bar) to start debugging.

Features include variable inspection, call stack, and watch expressions.

1. **10.Using Source Control (Git):**

Initialize a Git repository: Open a folder, right-click, and choose “Initialize Repository.”

Make commits: Use the Source Control panel (Activity Bar) to stage changes and commit.

Push changes: Connect to a remote repository and push your commits.