**ASSIGNMENT-2**

I would choose VS Code because of customizability and flexibility .

**Installing Visual Studio Code (VS Code)**

1. **Download VS Code**

- Go to the [Visual Studio Code website](https://code.visualstudio.com/).

- Click on the download button that matches your operating system (Windows, macOS, or Linux).

2. **Install VS Code**

- Run the downloaded installer.

- Follow the installation instructions. You can keep the default settings or customize them according to your preferences.

3. **Install Python Extension**

- Open VS Code.

- Go to the Extensions view by clicking on the Extensions icon in the Activity Bar on the side of the window or pressing `Ctrl+Shift+X`.

- Search for "Python" and click the install button for the extension provided by Microsoft.

4. **Configure Python Interpreter**

- Open the Command Palette by pressing `Ctrl+Shift+P`.

- Type "Python: Select Interpreter" and select the appropriate Python interpreter installed on your system.

5. **Install Additional Extensions (Optional)**

- Consider installing other useful extensions like Pylance (for better language support), Jupyter (for running Jupyter notebooks inside VS Code), and any other tools that fit your workflow.

**Why Choose Visual Studio Code (VS Code) for Python Development?**

1. Extensibility: VS Code is highly customizable with a vast library of extensions that support Python development, such as Python extension, Pylance, and Jupyter.

2. Integrated Terminal: It has a built-in terminal that allows you to run Python scripts and commands without leaving the editor.

3. Debugging: VS Code offers powerful debugging tools, making it easier to identify and fix errors in your code.

4. Version Control: Integrated Git support helps manage version control directly from the editor.

5. Cross-Platform: VS Code works on Windows, macOS, and Linux, providing a consistent development environment across different operating systems.