# SE-Assignment-5: Installation and Navigation of Visual Studio Code (VS Code)

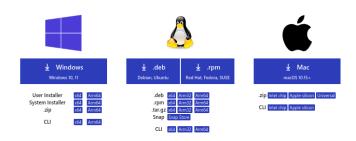
#### 1. Installation of VS Code

Steps to download and install Visual Studio Code on Windows 11 operating system:

1. Go to the Visual Studio Code website: <a href="https://code.visualstudio.com/">https://code.visualstudio.com/</a>.

#### Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.

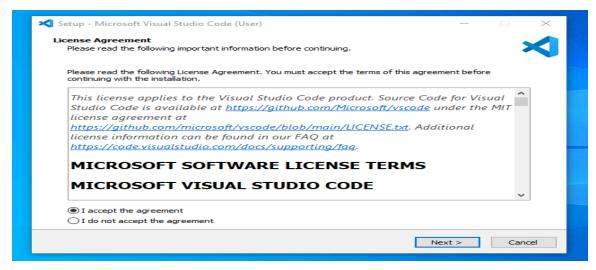


By downloading and using Visual Studio Code, you agree to the license terms and privacy statement

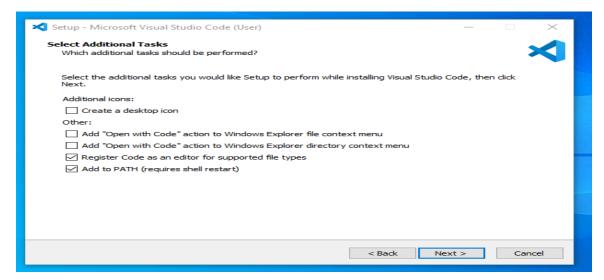
- 2. Click on the "Download for Windows" button.
- 3. Once the download is complete, run the installer.



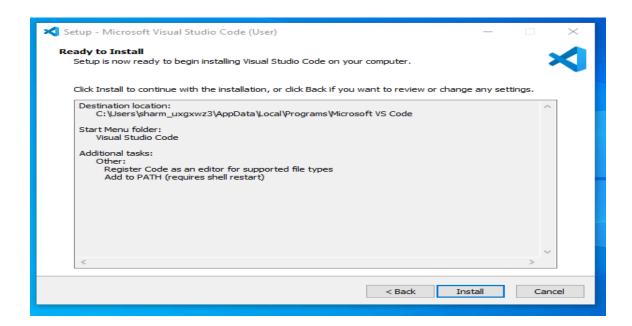
4. Follow the installation wizard, accept the agreement, and choose the installation location.

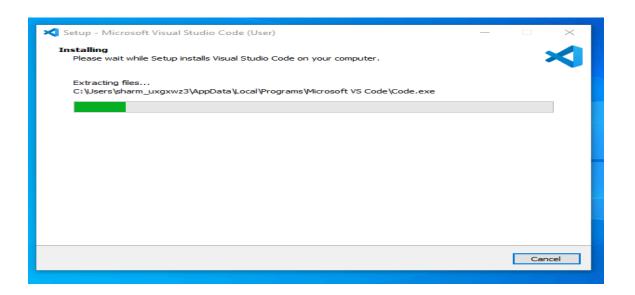


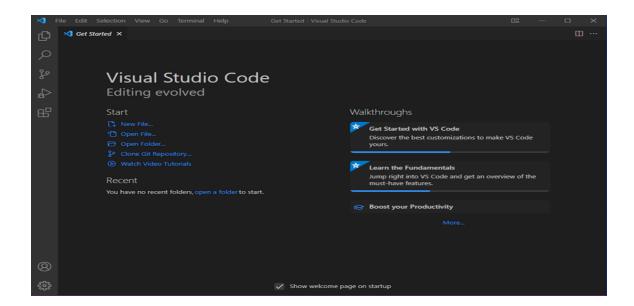
5. Select additional tasks such as adding VS Code to the PATH (recommended).



6. Click on "Install" to complete the installation.



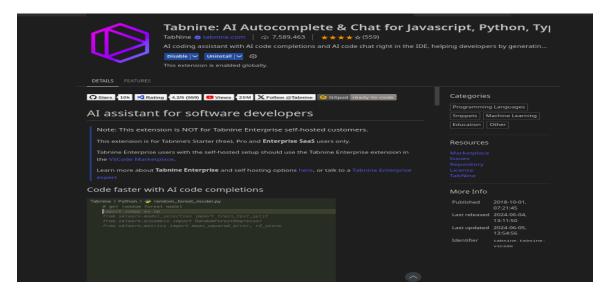


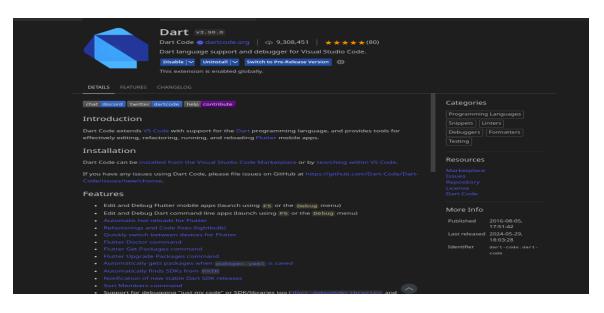


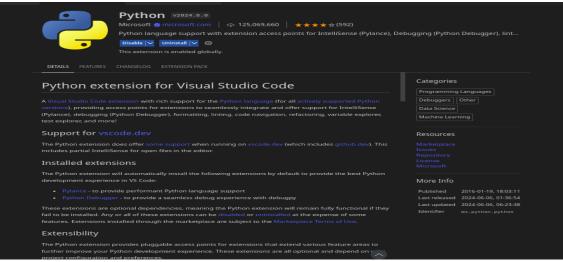
# 2. First-time Setup

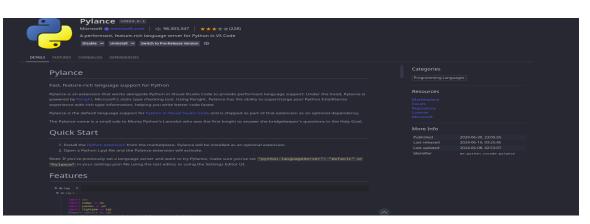
Initial configurations and settings for an optimal coding environment:

- 1. \*\*Theme:\*\* Choose a preferred color theme from File > Preferences > Color Theme.
- 2. \*\*Extensions:\*\* Install essential extensions like Python, Prettier, ESLint.



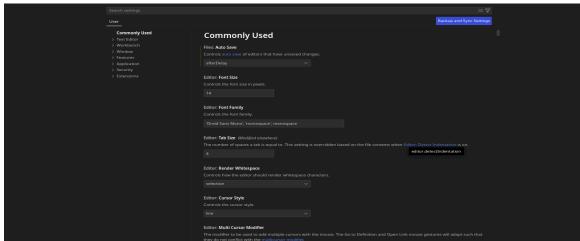








3. Settings Sync: Enable settings sync to save your configurations.



## 3. User Interface Overview

Main components of the VS Code user interface:

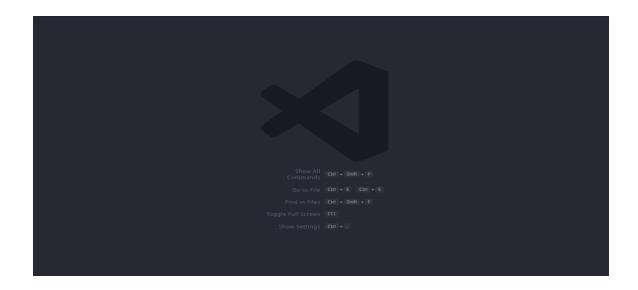
- Activity Bar: Located on the left side, provides access to views and their actions.

File Edit Selection View Go Run Terminal Help

- Side Bar: Contains views like Explorer, Search, Source Control.



- Editor Group: Central area where files are opened and edited.

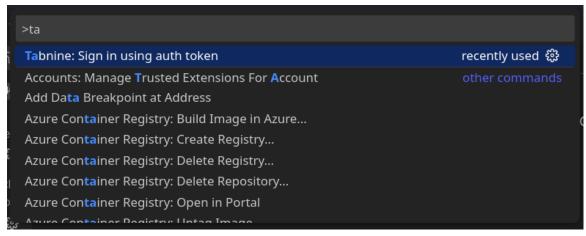


- Status Bar:Bottom bar displaying information like line number, Git branch, etc.



## 4. Command Palette

Command Palette in VS Code:



- Accessed via Ctrl+Shift+P or F1.

#### 5. Extensions in VS Code

Role of extensions:

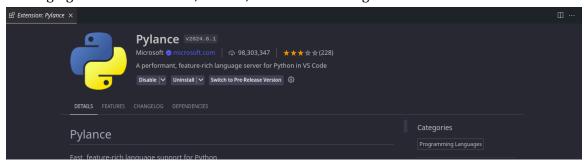
- Extensions enhance functionality (e.g., linters, debuggers, themes).
- Finding Extensions:Use the Extensions view (Ctrl+Shift+X).\



- Installing Extensions: Click "Install" on the desired extension.



- Managing Extensions: Enable, disable, or uninstall through the Extensions view.



Essential Extensions for Web Development:

- Prettier: Code formatter.
- Live Server: Launches a local server with a live reload feature.

# **6. Integrated Terminal**

Opening and using the integrated terminal:

- Open with Ctrl+` (backtick).

```
TERMINAL

* took 508ms

* mkdir hello-world && cd hello-world

*/hello-world

* jet init
Initialized empty Git repository in /Users/daimms/hello-world/.git/

*/hello-world // main

* echo "test" > test_file

*/hello-world // main [?]

* jet add . && git commit -m "Hello world!"
[main (root-commit) clc1283] Hello world!

1 file changed, 1 insertion(+)
create mode 100644 test_file

*/hello-world // main

* hello-world // main

* hello
```

- Advantages:
  - Access to the terminal within the editor, supports multiple terminals, and maintains the project context.

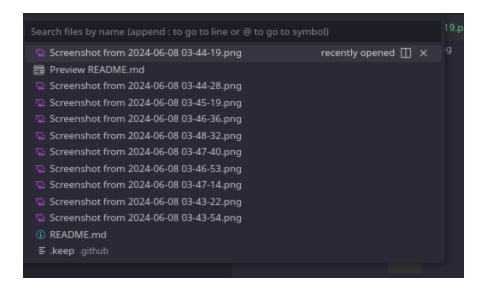
## 7. File and Folder Management

Managing files and folders:

- Creating: Right-click in Explorer view and select "New File" or "New Folder".



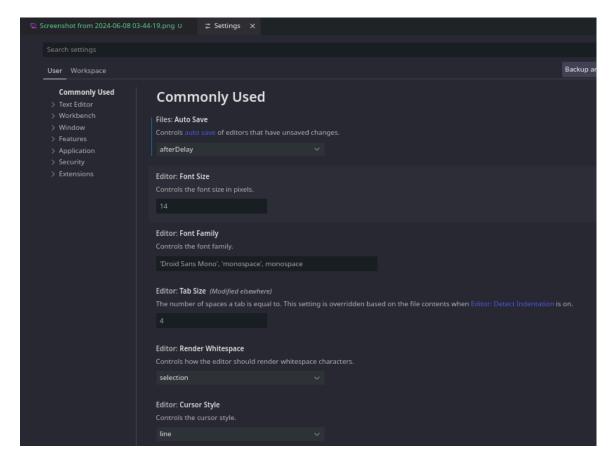
- Opening: Double-click on files in Explorer.
- Navigating: Use Ctrl+P to quickly open files by name.



# 8. Settings and Preferences

**Customizing settings:** 

- Access via File > Preferences > Settings or Ctrl+,.
- Examples: Change theme, font size, keybindings from the settings UI or JSON configuration.



# 9. Debugging in VS Code

Setting up and starting debugging:

- Open the Debug view with Ctrl+Shift+D.



# **10. Using Source Control**

Integrating Git with VS Code:

- Initializing a repository: Source Control view > Initialize Repository.
- Making commits: Stage changes and commit with a message.
- Pushing to GitHub: Use the Push command after setting up the remote repository.

```
git clone git@github.com:benard00118/repository.git\n
clear
git init\n
git add .\n
git commit -m "Latest updated assignment"\n
git remote add origin https://github.com/benard00118/se-assignment-1-setting-up-your-developer-environment-benard00118\
git push -u origin master\n
git init
git add .
git commit -am "Latest"\n
git commit -am "Latest"\n
git ddd .\ngit commit -m "Initial commit"\n
git checkout master\n
git add .\ngit commit -m "Initial commit"\n
git add .\ngit commit -m "Initial commit"\n
git checkout main\n
git push origin main\n
```