

DOCUMENTATION COMPILED BY:

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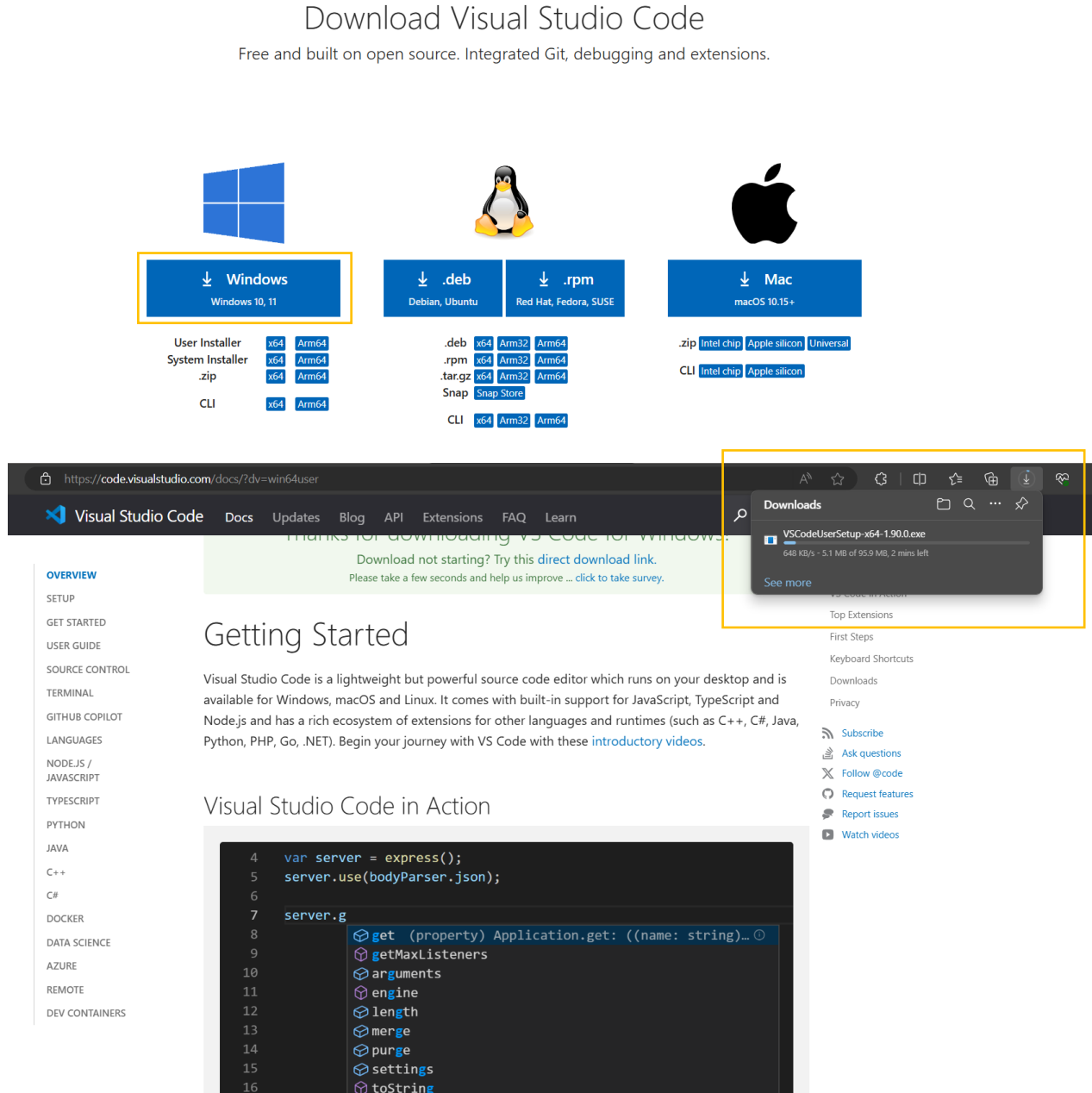
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1. DOWNLOADING & INSTALLING VS CODE

- Open browser and paste this link <https://code.visualstudio.com/Download>.
- Click on windows 10,11 (shown in yellow box). The download will start after clicking

Download Visual Studio Code

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



The screenshot displays the Visual Studio Code download page. It features three main sections for operating systems: Windows, Linux (Debian, Ubuntu, Red Hat, Fedora, SUSE), and Mac (macOS 10.15+). The Windows section is highlighted with a yellow box, showing options for User Installer, System Installer, .zip, and CLI, all with x64 and Arm64 architecture choices. The Linux section shows .deb, .rpm, .tar.gz, and Snap options, with x64, Arm32, and Arm64 architecture choices. The Mac section shows .zip and CLI options, with Intel chip and Apple silicon architecture choices. Below the download page, a browser window shows the download of VSCodeUserSetup-x64-1.90.0.exe, also highlighted with a yellow box.

Visual Studio Code

Getting Started

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes (such as C++, C#, Java, Python, PHP, Go, .NET). Begin your journey with VS Code with these [introductory videos](#).

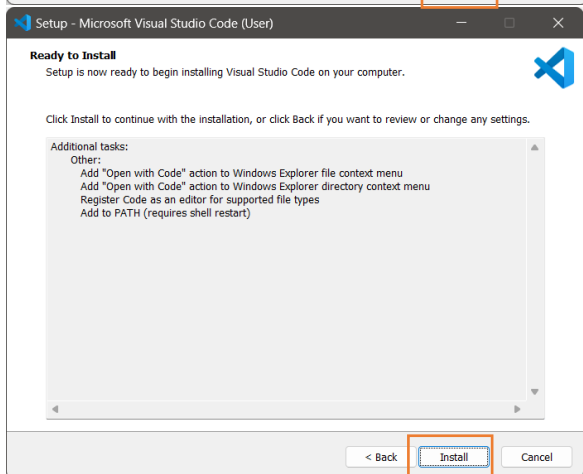
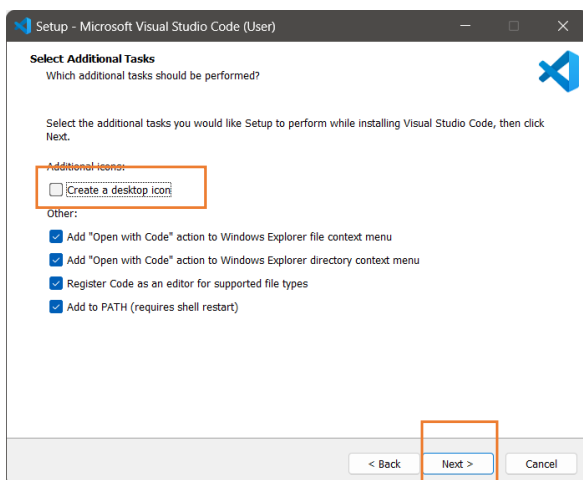
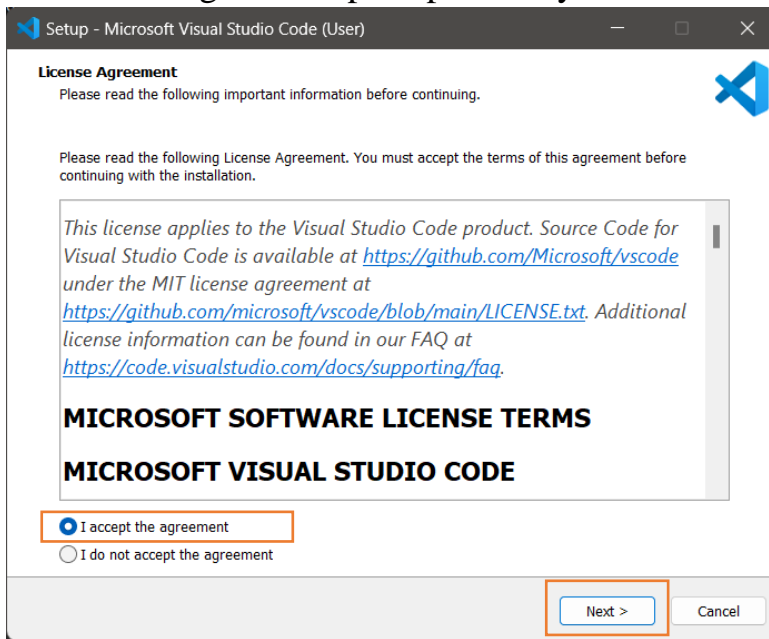
Visual Studio Code in Action

```
4 var server = express();
5 server.use(bodyParser.json);
6
7 server.get
8   get (property) Application.get: ((name: string)...
9   getMaxListeners
10  arguments
11  engine
12  length
13  merge
14  purge
15  settings
16  toString
```

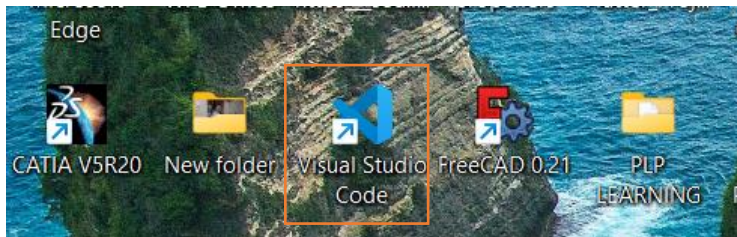
- Locate the download above in File Explorer and run it

python-3.12.3-amd64	03/06/2024 16:44	Application	26,087 KB
VSCodeUserSetup-x64-1.89.1	03/06/2024 15:26	Application	97,226 KB
Last month			
mighty_fyran1	25/05/2024 20:57	INO File	1 KB
utorrent-3-6-0-47062.bin	25/05/2024 17:04	BIN File	1,699 KB

- Follow through all the prompts until you click install



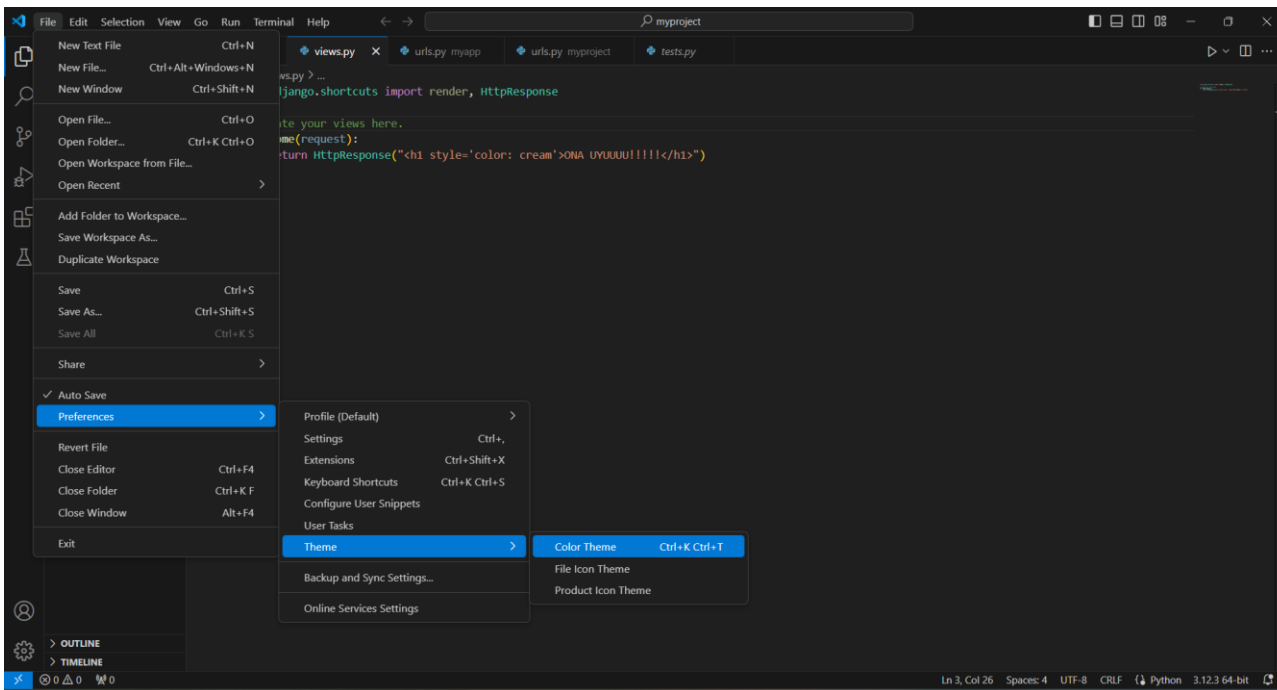
- After installation is complete, launch VS Code by double clicking the desktop icon



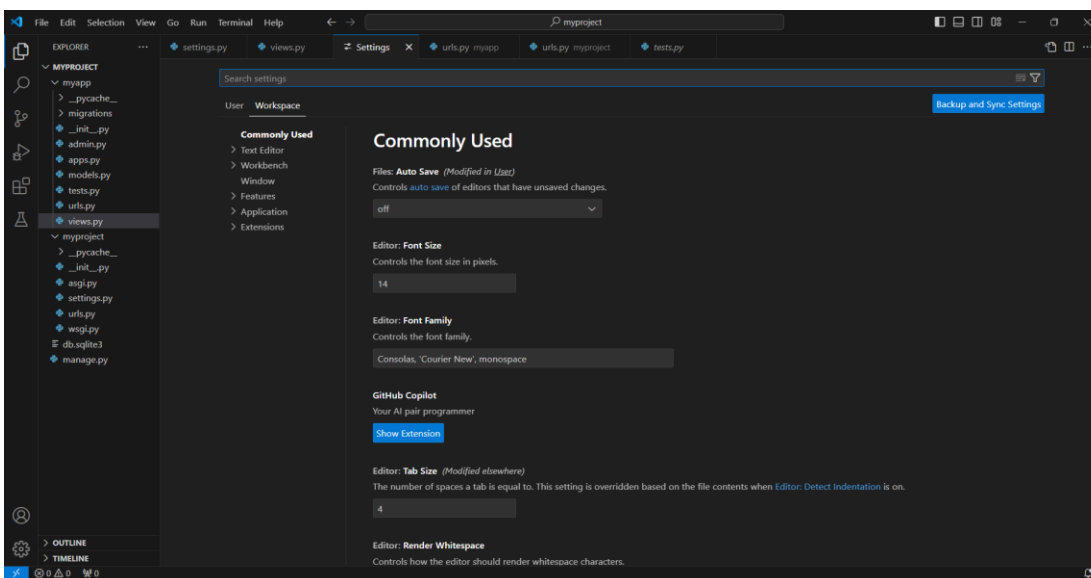
2. FIRST TIME SETUP

Initial configurations and settings include:

Themes: This can be adjusted by file > preferences > theme> colour themes

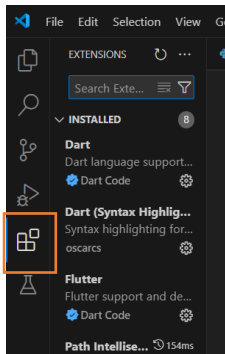


Font and layout: font size, line height and the editor layout can be adjusted in settings



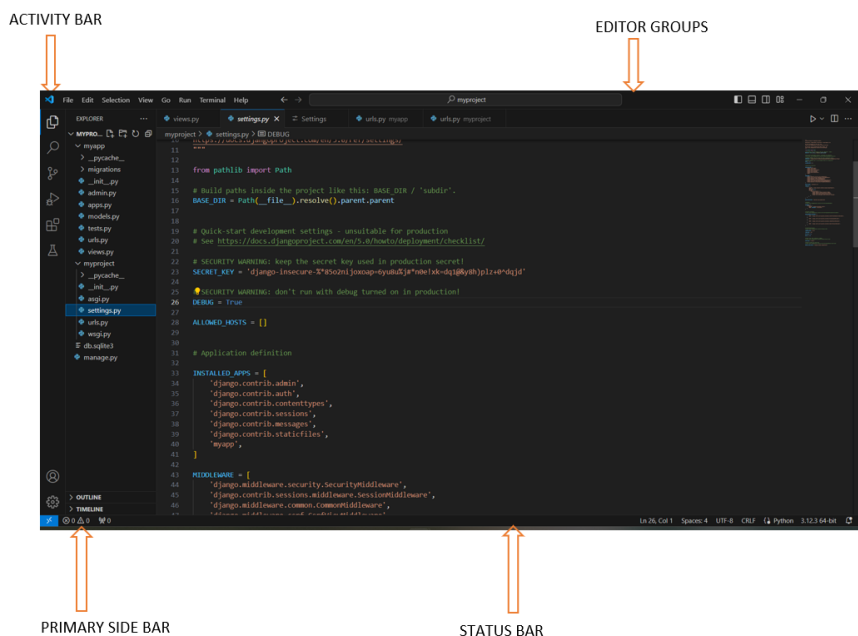
Extensions: click on the extensions view, browse and install them to enhance functionality. Some extensions include python, dart, flutter

An important setting includes enabling Autosave



3. USER INTERFACE OVERVIEW

- **Activity bar** – provides access to various views (explorer, search, source control, run and debug, extensions, testing)
- **Side bar** – displays the selected views and their contents like extensions
- **Editor group** – shows different tabs opened and allows editing of files
- **Status bar** – shows info about current project

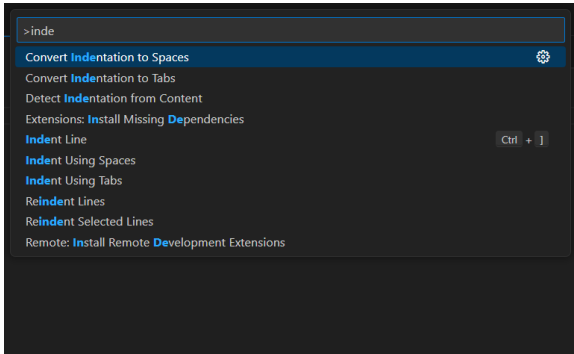


4. COMMAND PALETTE

It provides quick access to run commands

It is accessed by **shift+ctrl+P** in windows.

Tasks performed by command palette include running commands, opening files, changing settings

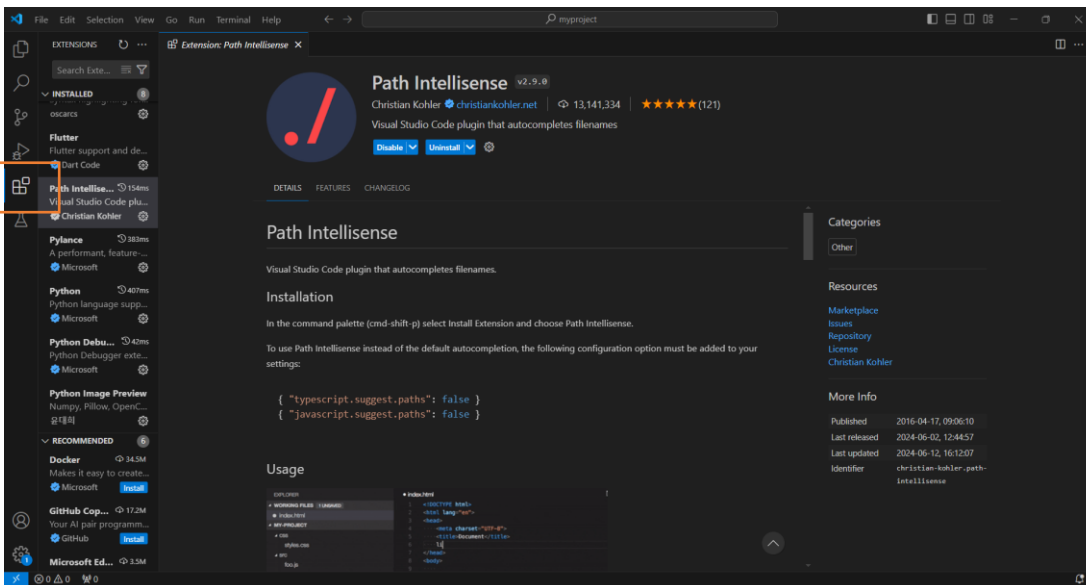


5. EXTENSIONS IN VS CODE

Extensions enhance functionality and coding experience

They can be found on the activity bar or by **ctrl+shift+x**. Look for the desired extension and click on install or uninstall if no longer needed.

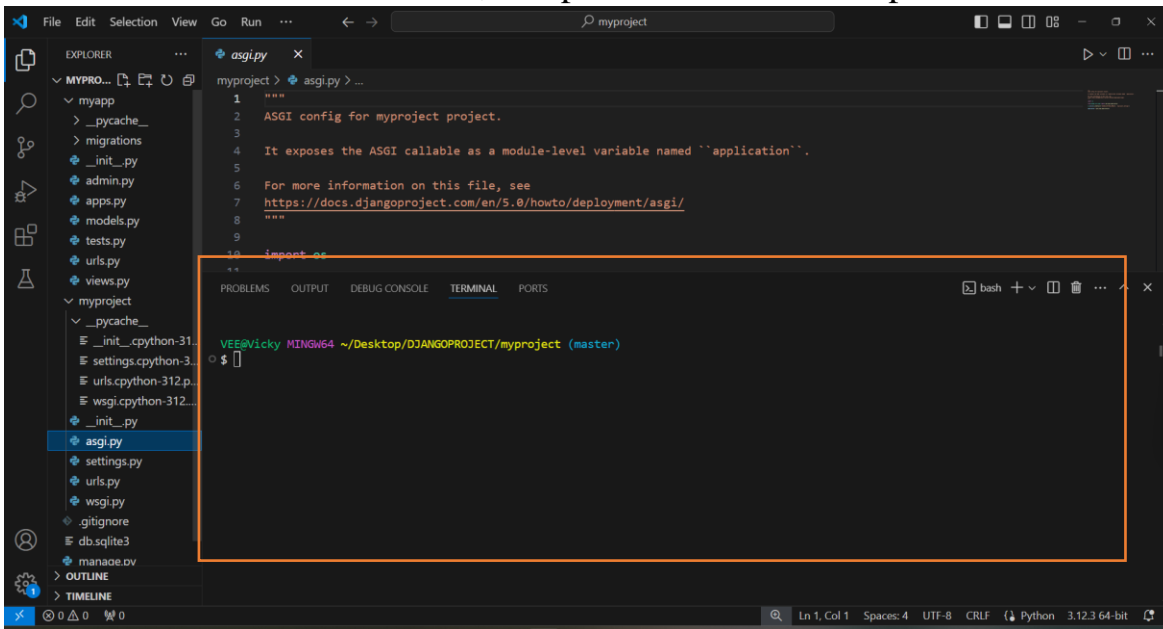
Essential extensions include path intellisense, css peek, HTML snippets, Git lens, python, dart, flutter



6. INTEGRATED TERMINAL

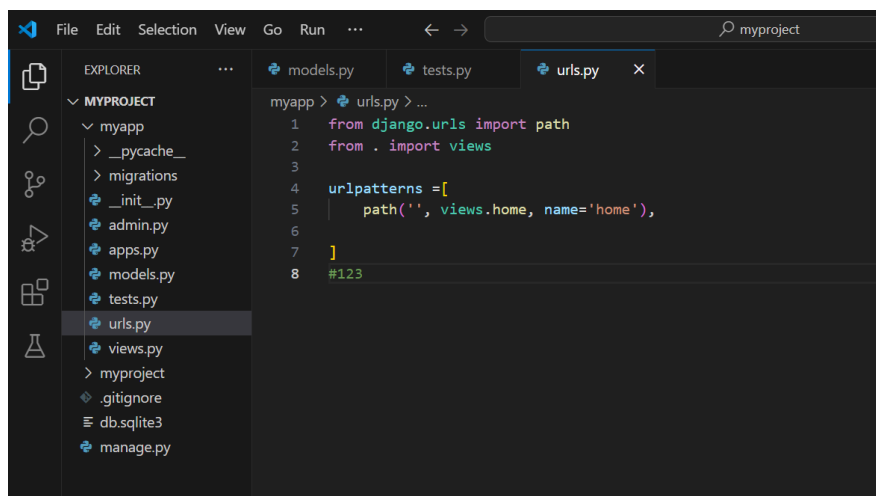
On windows, an integrated terminal can be accessed by **ctrl+`** or **view > terminal**

It can be used to run commands, compile codes and other operations without leaving the editor



7. FILE EXPLORER MANAGEMENT

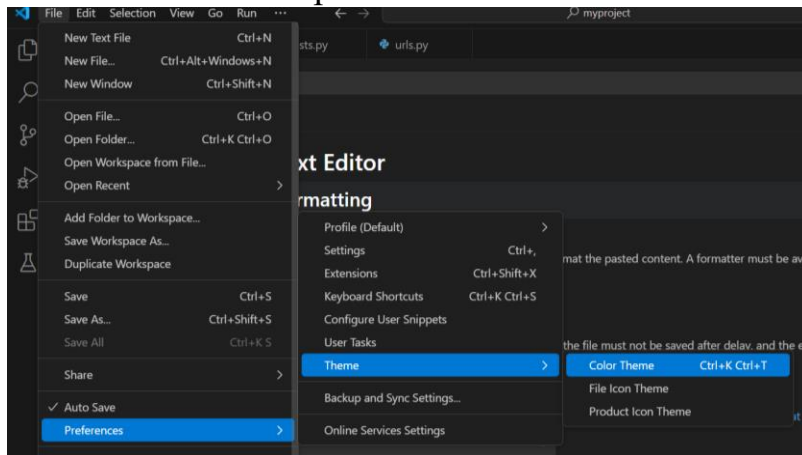
- **Creating** a file: Use 'file > new file'
- **Opening** a file: use 'file > open folder' to open the projects' directory
- **Managing** files: use the explorer view in the activity bar to navigate to project files
- **Navigating** between different files: organize files in tabs and split editor views to compare and edit multiple files simultaneously and compare them



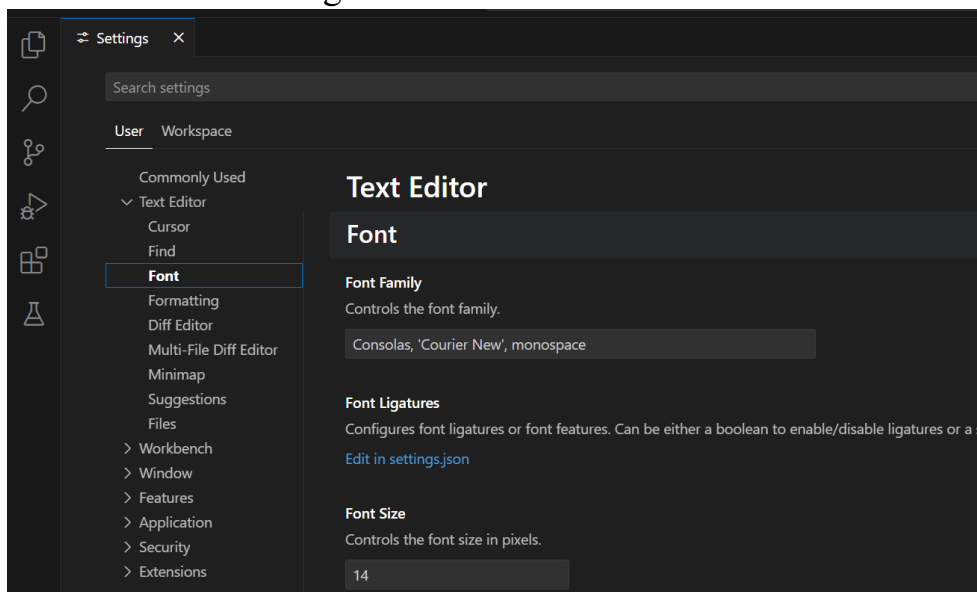
8. SETTINGS & PREFERENCES

Customize settings: use ‘file > preferences’

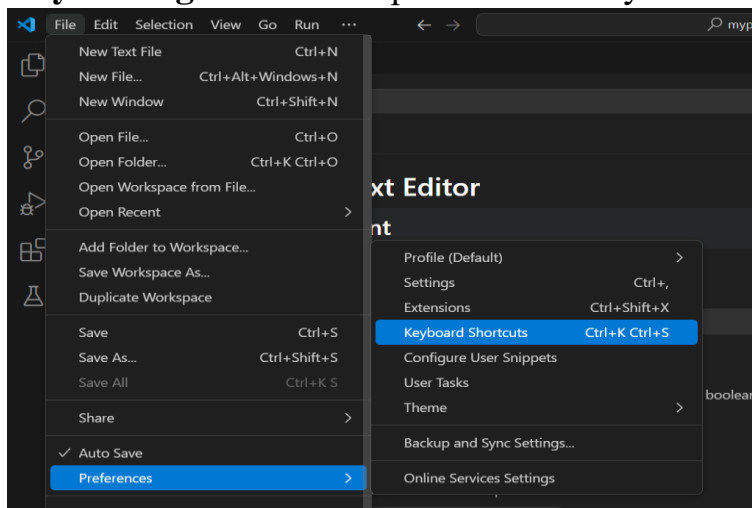
Themes: use ‘file > preferences > theme > colour theme’



Font size: use ‘settings > text editor > font’



Keybindings: use ‘file > preference > keyboard shortcuts’



9. DEBUGGING IN VS CODE

Setting up: open command palette, type 'Debug: open launch.json' select the environment and create a 'launch.json' file.

Set breakpoints: open the file, click in the gutter next to line numbers to select a breakpoint. A red dot indicates the breakpoint.

Start debugging: open the run and debug view in the activity bar. Select the required configuration

Key debugging features: breakpoints, variable inspection, step controls, call stacks, integrated terminal, debug console, debugging extensions

10.USING SOURCE CONTROL

Initializing a repository:

- Open the project using 'file > open folder'
- Open the integrated terminal using 'terminal > new terminal'
- Run the command 'git init'

Making Commits

- Track changes using 'git add .'
- Commit changes using 'git commit -m "committing these files"'

Pushing to GitHub

- Create a repository on github
- Add the remote repository using 'git remote add origin <repository-URL>'
- Push changes using 'git push -u origin branchname'