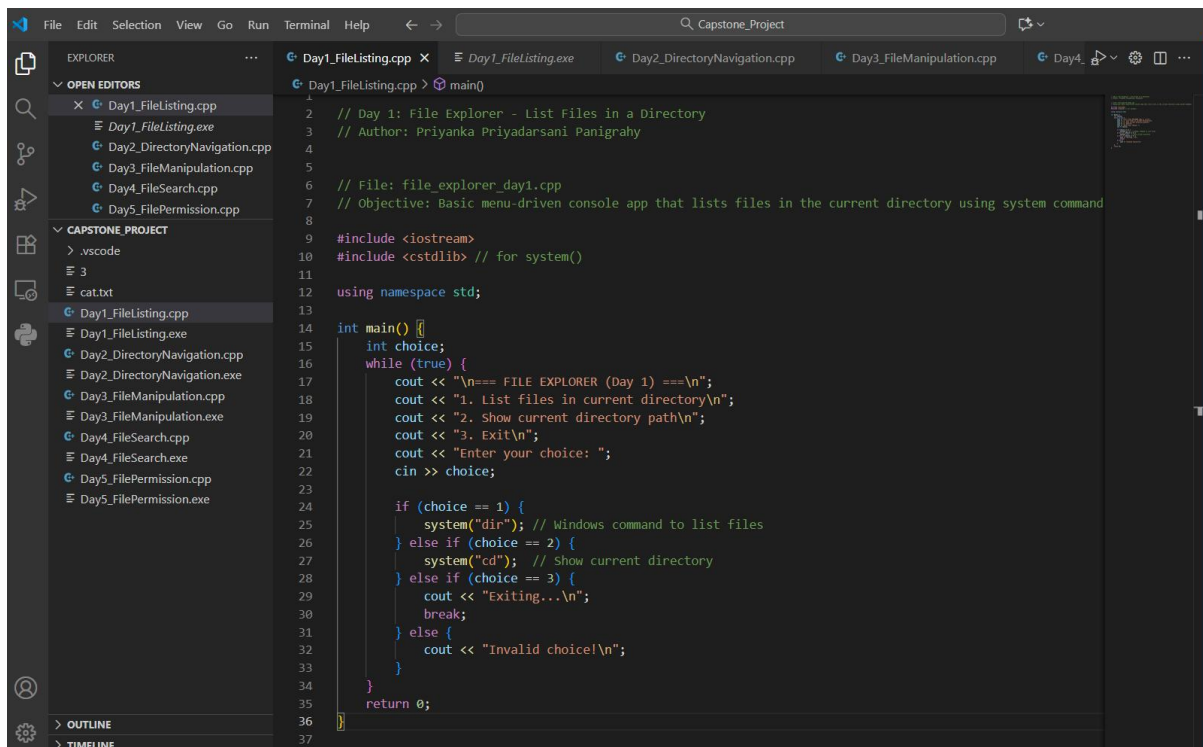
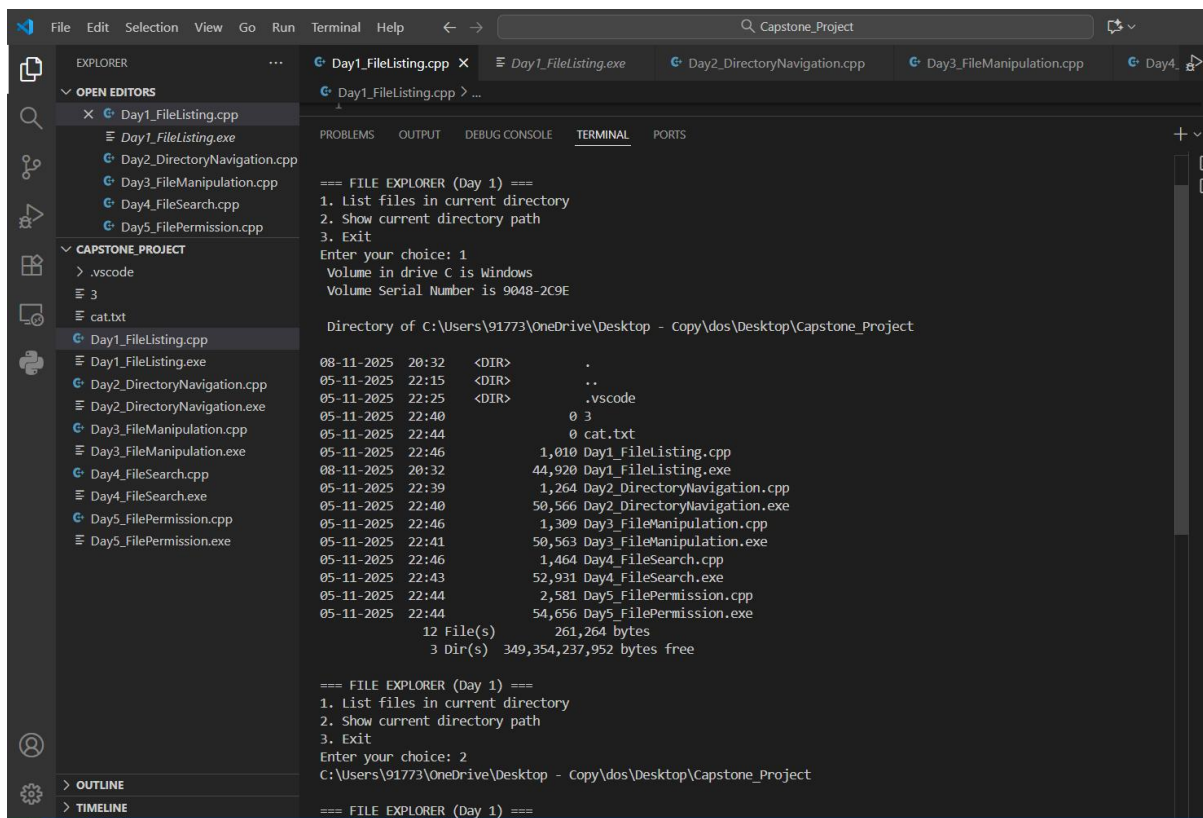


## DAY WISE WORK AND CODE:

### Day 1: Basic File Listing



```
1 // Day 1: File Explorer - List Files in a Directory
2 // Author: Priyanka Priyadarsani Panigrahy
3
4
5 // File: file_explorer_day1.cpp
6 // Objective: Basic menu-driven console app that lists files in the current directory using system command
7
8 #include <iostream>
9 #include <cstdlib> // for system()
10
11 using namespace std;
12
13 int main() {
14     int choice;
15     while (true) {
16         cout << "\n=== FILE EXPLORER (Day 1) ===\n";
17         cout << "1. List files in current directory\n";
18         cout << "2. Show current directory path\n";
19         cout << "3. Exit\n";
20         cout << "Enter your choice: ";
21         cin >> choice;
22
23         if (choice == 1) {
24             system("dir"); // Windows command to list files
25         } else if (choice == 2) {
26             system("cd"); // Show current directory
27         } else if (choice == 3) {
28             cout << "Exiting...\n";
29             break;
30         } else {
31             cout << "Invalid choice!\n";
32         }
33     }
34     return 0;
35 }
```



```
=== FILE EXPLORER (Day 1) ===
1. List files in current directory
2. Show current directory path
3. Exit
Enter your choice: 1
Volume in drive C is Windows
Volume Serial Number is 9048-2C9E

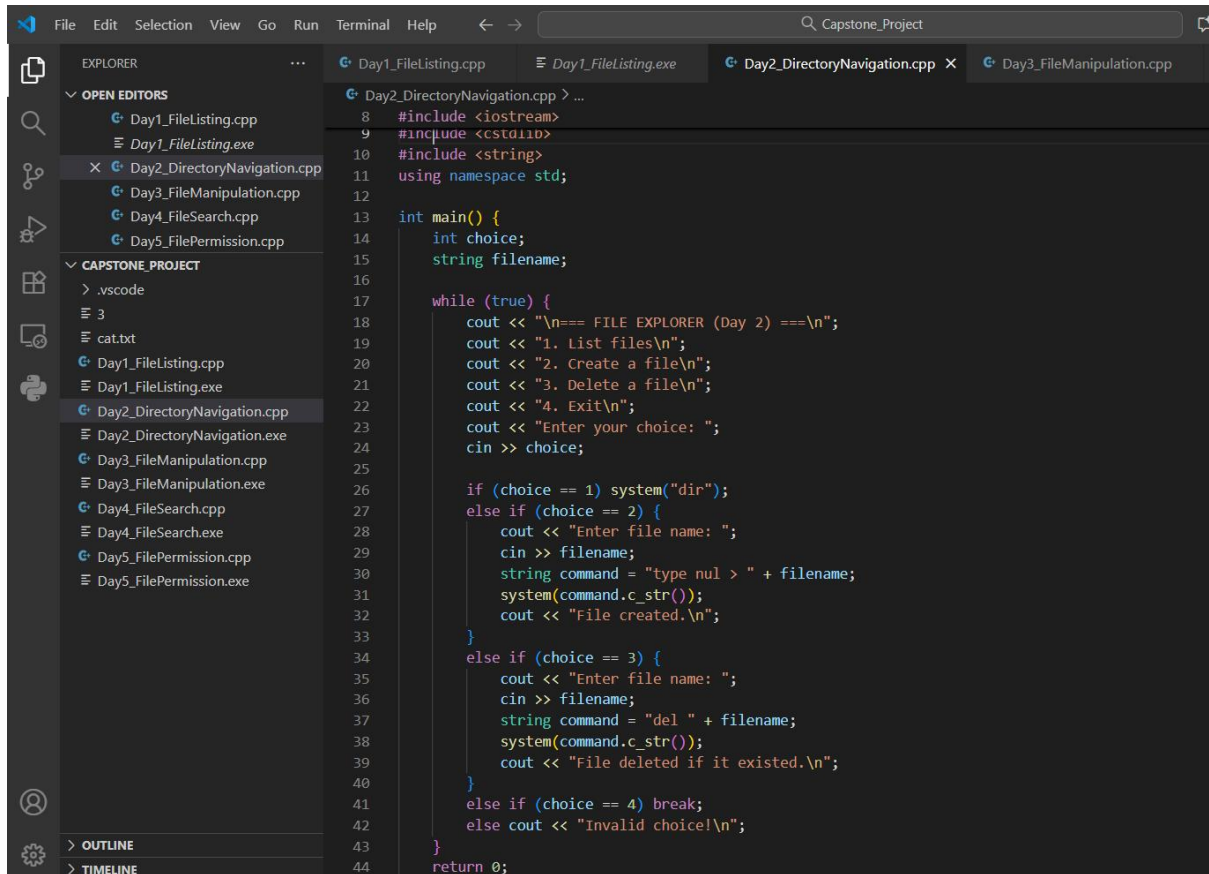
Directory of C:\Users\91773\OneDrive\Desktop - Copy\dos\Desktop\Capstone_Project

08-11-2025  20:32    <DIR>          .
05-11-2025  22:15    <DIR>          ..
05-11-2025  22:25    <DIR>          .vscode
05-11-2025  22:40             0 3
05-11-2025  22:44             0 cat.txt
05-11-2025  22:46           1,010 Day1_FileListing.cpp
08-11-2025  20:32           44,920 Day1_FileListing.exe
05-11-2025  22:39           1,264 Day2_DirectoryNavigation.cpp
05-11-2025  22:40           50,566 Day2_DirectoryNavigation.exe
05-11-2025  22:46           1,309 Day3_FileManipulation.cpp
05-11-2025  22:41           50,563 Day3_FileManipulation.exe
05-11-2025  22:46           1,464 Day4_FileSearch.cpp
05-11-2025  22:43           52,931 Day4_FileSearch.exe
05-11-2025  22:44           2,581 Day5_FilePermission.cpp
05-11-2025  22:44           54,656 Day5_FilePermission.exe
                12 File(s)          261,264 bytes
                3 Dir(s)  349,354,237,952 bytes free

=== FILE EXPLORER (Day 1) ===
1. List files in current directory
2. Show current directory path
3. Exit
Enter your choice: 2
C:\Users\91773\OneDrive\Desktop - Copy\dos\Desktop\Capstone_Project

=== FILE EXPLORER (Day 1) ===
```

## Day 2: File Creation and Deletion



The screenshot shows the Visual Studio Code interface with a project named "Capstone\_Project". The Explorer panel on the left lists the project files, including source code (.cpp) and executables (.exe) for five days of development. The Day2\_DirectoryNavigation.cpp file is selected and open in the editor. The code in this file implements a menu-driven program for file operations. It includes headers for iostream, cstdlib, and string, and uses the std namespace. The main function contains a while loop that prompts the user for a choice (1-4). Choice 1 lists files using the system("dir") command. Choice 2 creates a file using "type nul > filename". Choice 3 deletes a file using "del filename". Choice 4 breaks the loop. Invalid choices result in an error message. The program returns 0 at the end.

```
8  #include <iostream>
9  #include <cstdlib>
10 #include <string>
11 using namespace std;
12
13 int main() {
14     int choice;
15     string filename;
16
17     while (true) {
18         cout << "\n=== FILE EXPLORER (Day 2) ===\n";
19         cout << "1. List files\n";
20         cout << "2. Create a file\n";
21         cout << "3. Delete a file\n";
22         cout << "4. Exit\n";
23         cout << "Enter your choice: ";
24         cin >> choice;
25
26         if (choice == 1) system("dir");
27         else if (choice == 2) {
28             cout << "Enter file name: ";
29             cin >> filename;
30             string command = "type nul > " + filename;
31             system(command.c_str());
32             cout << "File created.\n";
33         }
34         else if (choice == 3) {
35             cout << "Enter file name: ";
36             cin >> filename;
37             string command = "del " + filename;
38             system(command.c_str());
39             cout << "File deleted if it existed.\n";
40         }
41         else if (choice == 4) break;
42         else cout << "Invalid choice!\n";
43     }
44     return 0;
}
```

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\91773\OneDrive\Desktop - Copy\dos\Desktop\Capstone_Project> cd "c:\Users\91773\OneDrive\Desktop -
os\Desktop\Capstone_Project\" ; if ($?) { g++ Day2_DirectoryNavigation.cpp -o Day2_DirectoryNavigation } ; if
.\Day2_DirectoryNavigation }

=== FILE EXPLORER (Day 2) ===
1. List files
2. Create a file
3. Delete a file
4. Exit
Enter your choice: 1
Volume in drive C is Windows
Volume Serial Number is 9048-2C9E

Directory of C:\Users\91773\OneDrive\Desktop - Copy\dos\Desktop\Capstone_Project

08-11-2025  20:34    <DIR>          .
05-11-2025  22:15    <DIR>          ..
05-11-2025  22:25    <DIR>          .vscode
05-11-2025  22:40             0 3
05-11-2025  22:44             0 cat.txt
05-11-2025  22:46             1,010 Day1_FileListing.cpp
08-11-2025  20:32            44,920 Day1_FileListing.exe
05-11-2025  22:39             1,264 Day2_DirectoryNavigation.cpp
08-11-2025  20:34            50,566 Day2_DirectoryNavigation.exe
05-11-2025  22:46             1,309 Day3_FileManipulation.cpp
05-11-2025  22:41            50,563 Day3_FileManipulation.exe
05-11-2025  22:46             1,464 Day4_FileSearch.cpp
05-11-2025  22:43            52,931 Day4_FileSearch.exe
05-11-2025  22:44             2,581 Day5_FilePermission.cpp
05-11-2025  22:44            54,656 Day5_FilePermission.exe
               12 File(s)          261,264 bytes
               3 Dir(s)  347,777,912,832 bytes free

=== FILE EXPLORER (Day 2) ===
1. List files
2. Create a file
3. Delete a file

```

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

=== FILE EXPLORER (Day 2) ===
1. List files
2. Create a file
3. Delete a file
4. Exit
Enter your choice: 2
Enter file name: cat.txt
File created.

=== FILE EXPLORER (Day 2) ===
1. List files
2. Create a file
3. Delete a file
4. Exit
Enter your choice: 2
Enter file name: dog.txt
File created.

=== FILE EXPLORER (Day 2) ===
1. List files
2. Create a file
3. Delete a file
4. Exit
Enter your choice: 3
Enter file name: cat.txt
File deleted if it existed.

=== FILE EXPLORER (Day 2) ===
1. List files
2. Create a file
3. Delete a file
4. Exit
Enter your choice: 1
Volume in drive C is Windows
Volume Serial Number is 9048-2C9E

```

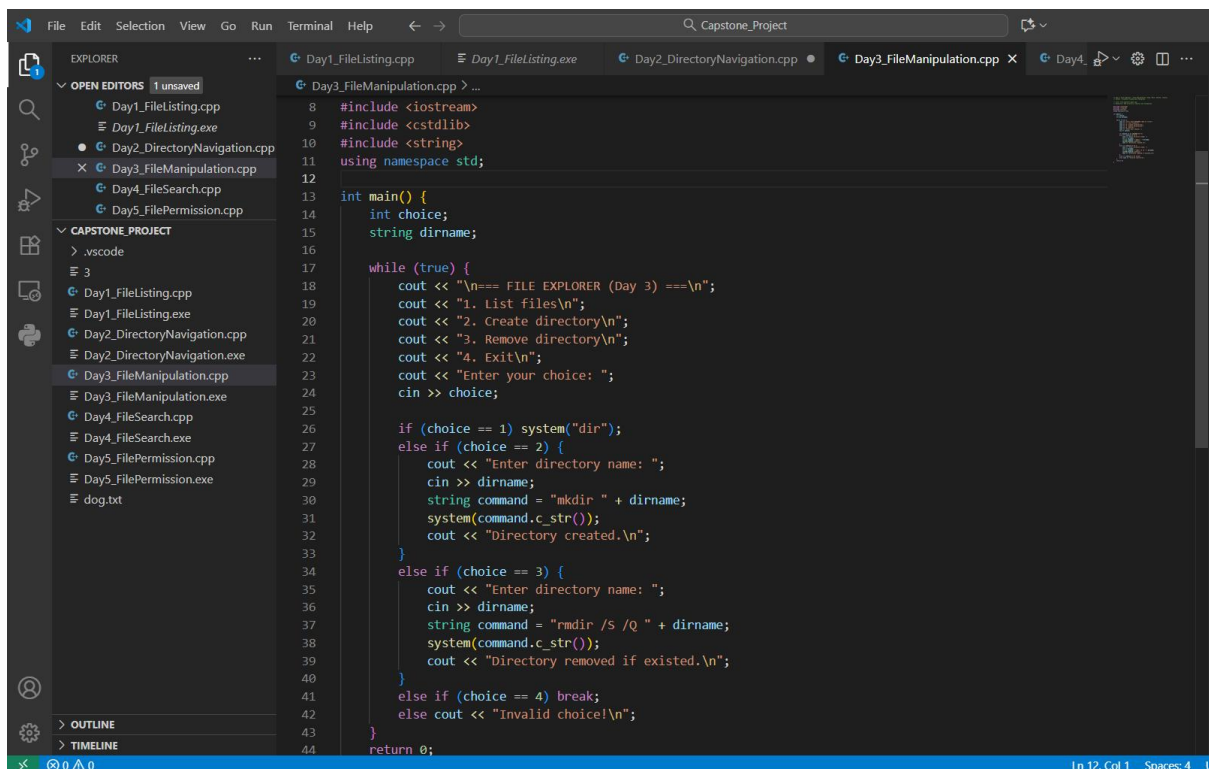
```
=== FILE EXPLORER (Day 2) ===
1. List files
2. Create a file
3. Delete a file
4. Exit
Enter your choice: 1
Volume in drive C is Windows
Volume Serial Number is 9048-2C9E

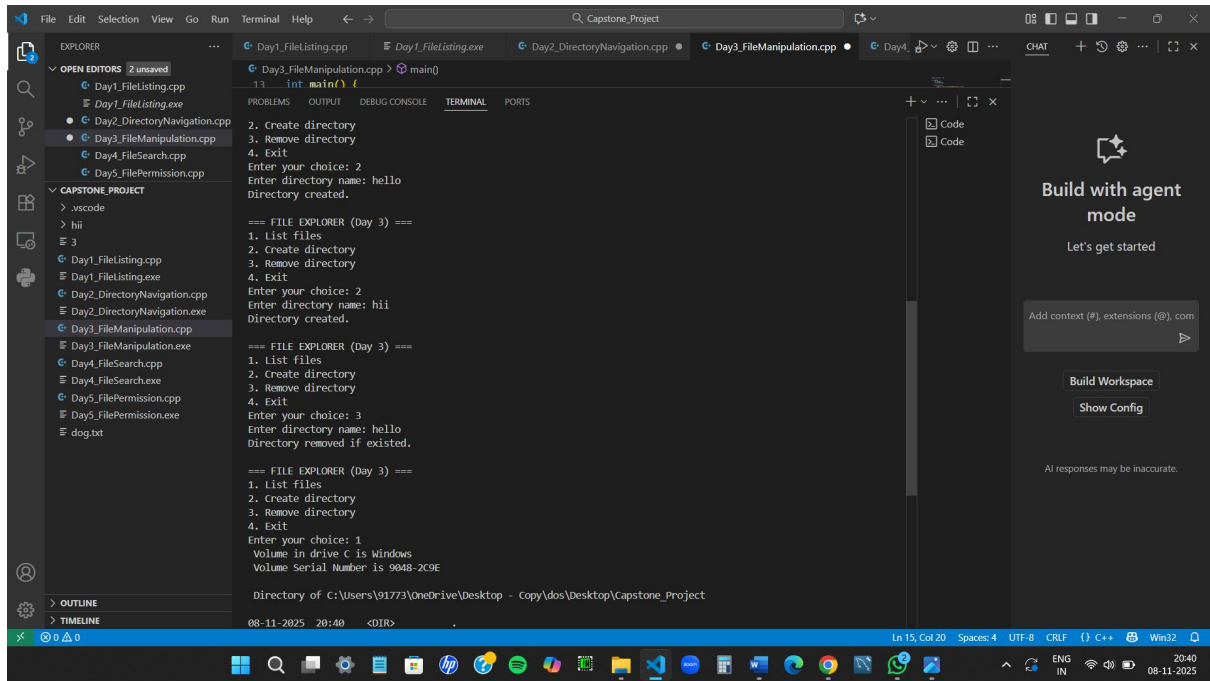
Directory of C:\Users\91773\OneDrive\Desktop - Copy\dos\Desktop\Capstone_Project

08-11-2025  20:35    <DIR>          .
05-11-2025  22:15    <DIR>          ..
05-11-2025  22:25    <DIR>          .vscode
05-11-2025  22:40                0 3
05-11-2025  22:46            1,010 Day1_FileListing.cpp
08-11-2025  20:32            44,920 Day1_FileListing.exe
05-11-2025  22:39            1,264 Day2_DirectoryNavigation.cpp
08-11-2025  20:34            50,566 Day2_DirectoryNavigation.exe
05-11-2025  22:46            1,309 Day3_FileManipulation.cpp
05-11-2025  22:41            50,563 Day3_FileManipulation.exe
05-11-2025  22:46            1,464 Day4_FileSearch.cpp
05-11-2025  22:43            52,931 Day4_FileSearch.exe
05-11-2025  22:44            2,581 Day5_FilePermission.cpp
05-11-2025  22:44            54,656 Day5_FilePermission.exe
08-11-2025  20:35                0 dog.txt
                12 File(s)          261,264 bytes
                3 Dir(s)  347,777,245,184 bytes free

=== FILE EXPLORER (Day 2) ===
1. List files
2. Create a file
3. Delete a file
4. Exit
Enter your choice: 4
PS C:\Users\91773\OneDrive\Desktop - Copy\dos\Desktop\Capstone_Project>
```

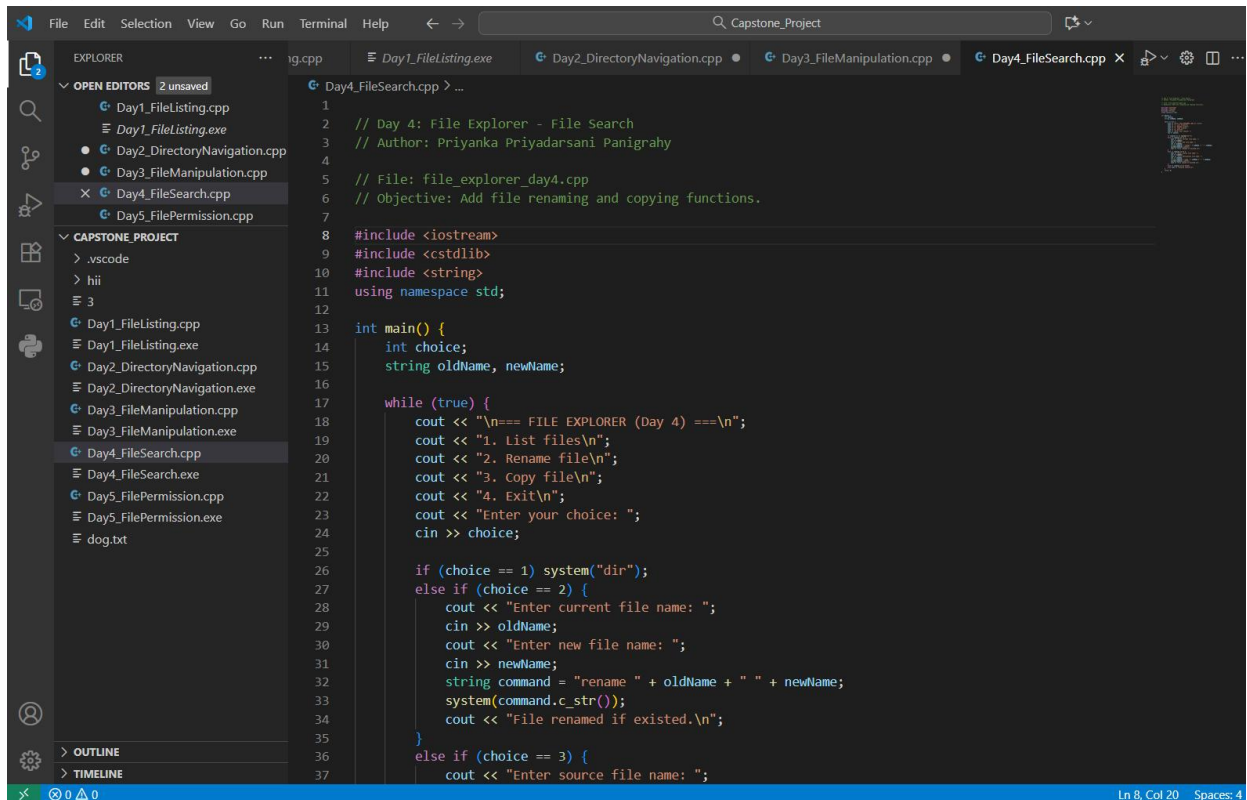
## Day 3: Directory Creation and Removal





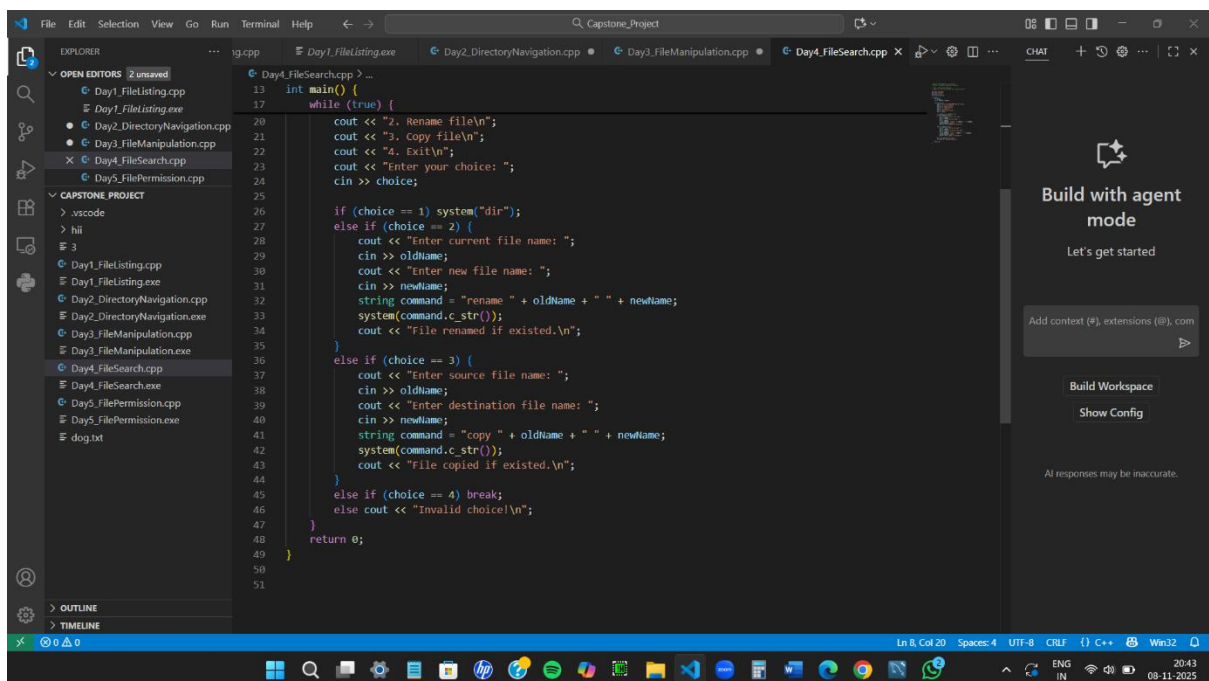


## Day 4: File Rename and Copy



The screenshot shows the Visual Studio Code editor with the file `Day4_FileSearch.cpp` open. The code implements a file explorer interface for Day 4, focusing on file search, rename, and copy operations. The `main` function uses a `while` loop to present a menu of options to the user. Option 1 lists files, Option 2 renames a file, and Option 3 copies a file. The code uses `system` calls to execute `dir`, `rename`, and `copy` commands. The Explorer sidebar on the left shows the project structure, including files from previous days and a `dog.txt` file.

```
1 // Day 4: File Explorer - File Search
2 // Author: Priyanka Priyadarsani Panigrahy
3
4 // File: file_explorer_day4.cpp
5 // Objective: Add file renaming and copying functions.
6
7
8 #include <iostream>
9 #include <cstdlib>
10 #include <string>
11 using namespace std;
12
13 int main() {
14     int choice;
15     string oldName, newName;
16
17     while (true) {
18         cout << "\n=== FILE EXPLORER (Day 4) ===\n";
19         cout << "1. List files\n";
20         cout << "2. Rename file\n";
21         cout << "3. Copy file\n";
22         cout << "4. Exit\n";
23         cout << "Enter your choice: ";
24         cin >> choice;
25
26         if (choice == 1) system("dir");
27         else if (choice == 2) {
28             cout << "Enter current file name: ";
29             cin >> oldName;
30             cout << "Enter new file name: ";
31             cin >> newName;
32             string command = "rename " + oldName + " " + newName;
33             system(command.c_str());
34             cout << "File renamed if existed.\n";
35         }
36         else if (choice == 3) {
37             cout << "Enter source file name: ";
```



This screenshot shows the same VS Code editor window, but with the code for `Day4_FileSearch.cpp` extended to include a copy function and a final `break` statement for the exit option. The `main` function now handles four choices: listing files, renaming, copying, and exiting. The Chat sidebar on the right is open, displaying the 'Build with agent mode' interface with options to 'Let's get started', 'Add context (#)', 'extensions (@)', 'com', 'Build Workspace', and 'Show Config'. The status bar at the bottom indicates the current file is `Day4_FileSearch.cpp` at line 8, column 20, with 4 spaces.

```
13 int main() {
14     while (true) {
15         cout << "2. Rename file\n";
16         cout << "3. Copy file\n";
17         cout << "4. Exit\n";
18         cout << "Enter your choice: ";
19         cin >> choice;
20
21         if (choice == 1) system("dir");
22         else if (choice == 2) {
23             cout << "Enter current file name: ";
24             cin >> oldName;
25             cout << "Enter new file name: ";
26             cin >> newName;
27             string command = "rename " + oldName + " " + newName;
28             system(command.c_str());
29             cout << "File renamed if existed.\n";
30         }
31         else if (choice == 3) {
32             cout << "Enter source file name: ";
33             cin >> oldName;
34             cout << "Enter destination file name: ";
35             cin >> newName;
36             string command = "copy " + oldName + " " + newName;
37             system(command.c_str());
38             cout << "File copied if existed.\n";
39         }
40         else if (choice == 4) break;
41         else cout << "Invalid choice\n";
42     }
43     return 0;
44 }
```

```
Terminal Help < -> Capstone_Project
Day1_FileListing.exe Day2_DirectoryNavigation.cpp Day3_FileManipulation.cpp Day4_FileSearch.cpp
Day4_FileSearch.cpp > main()
13 int main() {
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
08-11-2025 20:39 50,563 Day3_FileManipulation.exe
05-11-2025 22:46 1,464 Day4_FileSearch.cpp
08-11-2025 20:43 52,931 Day4_FileSearch.exe
05-11-2025 22:44 2,581 Day5_FilePermission.cpp
05-11-2025 22:44 54,656 Day5_FilePermission.exe
08-11-2025 20:35 0 dog.txt
08-11-2025 20:39 <DIR> hii
12 File(s) 261,264 bytes
4 Dir(s) 347,474,767,872 bytes free

=== FILE EXPLORER (Day 4) ===
1. List files
2. Rename file
3. Copy file
4. Exit
Enter your choice: 2
Enter current file name: dog.txt
Enter new file name: dog_child.txt
File renamed if existed.

=== FILE EXPLORER (Day 4) ===
1. List files
2. Rename file
3. Copy file
4. Exit
Enter your choice: 1
Volume in drive C is Windows
Volume Serial Number is 9048-2C9E

Directory of C:\Users\91773\OneDrive\Desktop - Copy\dos\Desktop\Capstone_Project

08-11-2025 20:44 <DIR> .
05-11-2025 22:15 <DIR> ..
05-11-2025 22:25 <DIR> .vscode
05-11-2025 22:40 0 3
05-11-2025 22:46 1,010 Day1_FileListing.cpp
08-11-2025 20:32 44,920 Day1_FileListing.exe
```

## Day 5: Final Integrated Application

