

The screenshot shows a dark-themed code editor interface, likely Visual Studio Code, with the following details:

- EXPLORER**: Shows a file tree under the **c++** folder, listing files from day76.c to day89.c.
- OPEN EDITORS**: Shows multiple tabs for C++ files: day77.c, day78.c, day79.c, day80.c, day81.c, day82.c, day83.c, day84.c, and day85.c (the active tab).
- EDITOR**: Displays the contents of **day85.c**, which includes an `enum Example` with values A, B, and C, and a `main()` function that prints their values.
- TERMINAL**: Shows the command-line output of running the program, displaying the values A = 10, B = 11, and C = 12.
- STATUS BAR**: Shows indexing completed, file paths like `/Users/rishabhtrivedi/Documents/vs/c++/day85.c`, and system information like Ln 16, Col 1, Spaces: 4, and macos-clang-x64.

```
#include <stdio.h>
enum Example {
    A = 10,
    B,
    C
};

int main() {
    printf("A = %d\n", A);
    printf("B = %d\n", B);
    printf("C = %d\n", C);

    return 0;
}
```

```
rishabhtrivedi@Rishabhs-MacBook-Air ~ % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day85.c -o day85 && ./day85
A = 10
B = 11
C = 12
```

EXPLORER ...

OPEN EDITORS

- c day71.c c++
- x c day72.c c++
- c day73.c c++
- c day74.c c++
- c day75.c c++
- c day76.c c++
- c day77.c c++
- c day78.c c++
- c day79.c c++
- c day80.c c++

VS

- c++
 - day65
 - day65.c
 - day66
 - day66.c
 - day67
 - day67.c
 - day68
 - day68.c
 - day69
 - day69.c
 - day70
 - day70.c
 - day71
 - day71.c
 - day72
 - day72.c
 - day73.c
 - day74.c
 - day75.c
 - day76.c
 - day77.c
 - day78.c
 - day79.c
 - day80.c
 - day81.c

TERMINAL

```
cd "/Users/rishabhtrivedi/Documents/vs/c+/" && gcc day72.c -o day72 && "/Users/rishabhtrivedi/Documents/vs/c+/"day72
● rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c+/" && gcc day72.c -o day72 && "/Users/rishabhtrivedi/Documents/vs/c+/"da
y72
Name: Rishabh Age: 0
● rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

Indexing completed.

Ln 25, Col 1 Spaces: 4 UTF-8 LF { } C ⚡ Go Live macos-clang-x64 Prettier

A screenshot of the Visual Studio Code (VS Code) interface, showing a C++ project named "vs" with multiple files in the Explorer sidebar. The current file, "day87.c", is open in the editor and displays the following code:

```
c++ > C day87.c > ...
1 #include <stdio.h>
2
3 enum Role {
4     ADMIN,
5     USER,
6     GUEST
7 };
8
9 int main() {
10     enum Role r;
11
12     // Example input
13     r = GUEST;
14
15     switch (r) {
16         case ADMIN:
17             printf("Welcome Admin!\n");
18             break;
19
20         case USER:
21             printf("Welcome User!\n");
22             break;
23
24         case GUEST:
25             printf("Welcome Guest!\n");
26             break;
27
28         default:
29             printf("Unknown role\n");
30     }
31
32     return 0;
33 }
34
```

The terminal at the bottom shows the output of running the program:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day87.c -o day87 && "/Users/rishabhtrivedi/Documents/vs/c++/"day87
● rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day87.c -o day87 && "/Users/rishabhtrivedi/Documents/vs/c++/"da
y87
Welcome Guest!
○ rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

The status bar at the bottom indicates "Indexing completed." and shows file navigation and build information.

The screenshot shows the Visual Studio Code (VS Code) interface with a dark theme. The left sidebar contains icons for file operations, search, and other development tools. The Explorer panel lists files under a 'vs' folder, including 'C++' sub-folders for 'day76' through 'day91'. The current file being edited is 'day83.c'. The code itself is a C++ program that includes the standard input-output library and defines an enum 'Month' with values for all twelve months. It then uses a switch statement to determine the number of days in each month, printing the result to the console. The terminal at the bottom shows the command-line steps to compile and run the program, resulting in the output '28 or 29 days'.

```
c++ > day83.c > ...
1 #include <stdio.h>
2
3 enum Month {
4     JAN, FEB, MAR, APR, MAY, JUN,
5     JUL, AUG, SEP, OCT, NOV, DEC
6 };
7
8 int main() {
9     enum Month m;
10
11     // Example input (you can change this)
12     m = FEB;
13
14     switch (m) {
15         case JAN:
16         case MAR:
17         case MAY:
18         case JUL:
19         case AUG:
20         case OCT:
21         case NOV:
22             printf("31 days\n");
23             break;
24
25         case APR:
26         case JUN:
27         case SEP:
28         case DEC:
29             printf("30 days\n");
30             break;
31
32         case FEB:
33             printf("28 or 29 days\n");
34             break;
35     }
36 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day83.c -o day83 && "/Users/rishabhtrivedi/Documents/vs/c++/"day83
● rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day83.c -o day83 && "/Users/rishabhtrivedi/Documents/vs/c++/"da
y83
28 or 29 days
○ rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

Ln 42, Col 1 Spaces: 4 UTF-8 LF { } C ⚡ Go Live macos-clang-x64 Prettier

A screenshot of the Visual Studio Code (VS Code) interface, showing a C++ project structure and an open editor for a file named `day77.c`.

The left sidebar shows the **EXPLORER** view with a list of files under the `vs` folder, including `day77.c`. The **OPEN EDITORS** view shows the content of `day77.c`, which is a C program that reads from `input.txt` and writes to `output.txt`, converting lowercase letters to uppercase.

```
c++ > cprojectrockpaperseissors.c U | day71.c | day72.c | day73.c | day74.c | day75.c | day76.c | day77.c X | day78.c | day79.c | day80.c | day81.c | day82.c | day83.c
```

```
c++ > day77.c > ...
1 #include <stdio.h>
2 #include <ctype.h>
3
4 int main() {
5     FILE *fin, *fout;
6     char ch;
7
8     // Open input file in read mode
9     fin = fopen("input.txt", "r");
10    if (fin == NULL) {
11        printf("Error: Cannot open input.txt\n");
12        return 1;
13    }
14
15    // Open output file in write mode
16    fout = fopen("output.txt", "w");
17    if (fout == NULL) {
18        printf("Error: Cannot open output.txt\n");
19        fclose(fin);
20        return 1;
21    }
22
23    // Read characters and convert lowercase to uppercase
24    while ((ch = fgetc(fin)) != EOF) {
25        ch = toupper(ch); // Convert to uppercase
26        fputc(ch, fout); // Write to output file
27    }
28
29    fclose(fin);
30    fclose(fout);
31
32    printf("Conversion complete! Check output.txt\n");
33
34    return 0;
```

The **TERMINAL** tab at the bottom shows the command line output of running the program:

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day77.c -o day77 && "/Users/rishabhtrivedi/Documents/vs/c++/"day77
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day77.c -o day77 && "/Users/rishabhtrivedi/Documents/vs/c++/"day77
Error: Cannot open input.txt
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

The status bar at the bottom indicates "Indexing completed." and shows the current file is `day77.c`.

A screenshot of the Visual Studio Code (VS Code) interface, version 1.68.2, showing a C++ development environment.

The interface includes the following components:

- Left Sidebar:** Contains icons for Explorer, Search, Problems, Diagnostics, Workbench, Terminal, and Settings.
- File Explorer (EXPLORER):** Shows a tree view of files under the 'vs' workspace, including 'c++' and various 'dayXX.c' files.
- Open Editors:** A tab bar at the top showing multiple open files: day76.c, day77.c, day78.c, day79.c, day80.c, day81.c, day82.c, day83.c, day84.c (the active editor), and day84.c (another tab).
- Code Editor:** The main area displays the contents of 'day84.c'. The code defines an enum 'Status' with three values: SUCCESS, FAILURE, and TIMEOUT. It then prints a message based on the value of 'result' (set to FAILURE). The code editor shows syntax highlighting and line numbers from 1 to 32.
- Terminal:** Shows the command-line output of running the program. The user ran 'cd' to change directory, then compiled 'day84.c' to 'day84' using 'gcc'. The terminal output shows the message 'Operation failed'.
- Bottom Status Bar:** Displays the current file ('c++ master'), line ('Ln 32, Col 1'), and other system information like indexing status and system details.

The screenshot shows a dark-themed code editor interface, likely Visual Studio Code, with the following details:

- Left Sidebar:** Includes icons for Explorer, Search, Issues (502), Problems, Workspaces, and Extensions.
- Open Editors:** A list of files under the "VS" workspace:
 - C++ day60.c
 - day69 U
 - day69.c
 - day70 U
 - day70.c
 - day71
 - day71.c
 - day72
 - day72.c
 - day73
 - day73.c
 - day74
 - day74.c
 - day75
 - day75.c
 - day76
 - day76.c
 - day77
 - day77.c
 - day78
 - day78.c
 - day79
 - day79.c
 - day80
 - day80.c
 - day81
 - day82
 - day83
 - day84
- Top Bar:** Shows tabs for various files: cprojectrockpaperseissors.c, day71.c, day72.c, day73.c, day74.c, day75.c, day76.c (highlighted in orange), day77.c, and others.
- Editor Area:** Displays the content of day76.c:

```
c++ > C day76.c > ...
1 #include <stdio.h>
2
3 int main() {
4     FILE *fp;
5     char filename[100];
6     char line[200];
7
8     // Ask user for filename
9     printf("Enter filename: ");
10    scanf("%s", filename);
11
12    // Try to open file in read mode
13    fp = fopen(filename, "r");
14
15    // If file doesn't exist
16    if (fp == NULL) {
17        printf("Error: File does not exist!\n");
18        return 1;
19    }
20
21    printf("File opened successfully.\n\n");
22
23    // Display file contents
24    while (fgets(line, sizeof(line), fp) != NULL) {
25        printf("%s", line);
26    }
27
28    fclose(fp);
29    return 0;
30}
31
```
- Bottom Bar:** Includes tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS, and SPELL CHECKER. The TERMINAL tab is active, showing command-line history:

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day76.c -o day76 && "/Users/rishabhtrivedi/Documents/vs/c++/"day76
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day76.c -o day76 && "/Users/rishabhtrivedi/Documents/vs/c++/"da
y76
Enter filename: r
Error: File does not exist!
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```
- Bottom Status Bar:** Shows indexing status ("Indexing completed."), line/col information ("Ln 31, Col 1"), and file encoding ("UTF-8").

A screenshot of the Visual Studio Code (VS Code) interface, version 1.68.2, showing a C++ project. The interface includes the Explorer, Open Editors, and Terminal panes.

OPEN EDITORS

- day83.c
- day84.c
- day85.c
- day86.c
- day87.c
- day88.c
- day89.c
- day90.c
- day91.c c++**

vs

c++

- day81.c
- day82.c
- day82.c
- day83.c
- day83.c
- day84.c
- day84.c
- day85.c
- day85.c
- day86.c
- day86.c
- day87.c
- day87.c
- day88.c
- day88.c
- day89.c
- day89.c
- day90.c
- day90.c
- day91.c
- Definea... A
- Definea... A
- DMA A

PROBLEMS **OUTPUT** **DEBUG CONSOLE** **TERMINAL** **PORTS** **SPELL CHECKER**

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day91.c -o day91 && "/Users/rishabhtrivedi/Documents/vs/c++/"day91
● rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day91.c -o day91 && "/Users/rishabhtrivedi/Documents/vs/c++/"da
y91
Enter Name: Rishabh trivedi
Enter Roll No: Enter Marks: Name: Rishabh | Roll: 45066696 | Marks: 0
○ rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

Ln 27, Col 1 Spaces: 4 UTF-8 LF ⚡ C 🔍 Go Live macos-clang-x64 ⚡ Prettier

A screenshot of the Visual Studio Code (VS Code) interface, version 1.68.2, running on macOS. The interface is dark-themed.

Left Sidebar:

- File Explorer:** Shows a tree view of files under the 'c++' folder, including 'day65.c', 'day66.c', 'day67.c', 'day68.c', 'day69.c', 'day70.c', 'day71.c', 'day72.c', 'day73.c', 'day74.c', 'day75.c', 'day76.c', 'day77.c', 'day78.c', 'day79.c', and 'day80.c'. The file 'day73.c' is currently selected.
- Search:** A magnifying glass icon.
- Problems:** An icon with a red circle containing the number '498'.
- Terminal:** An icon with a terminal window.
- Activity:** An icon with a person icon.
- Help:** An icon with a question mark.

Top Bar:

- File navigation icons: back, forward, search, and refresh.
- Search bar: 'vs'.
- Icon for switching between workspaces: '8'.
- Icon for opening recent files: 'Recent'.
- Icon for settings: gear.
- Icon for extensions: 'Extensions'.
- Icon for help: 'Help'.

Code Editor:

```
c++ > cprojectrockpaperseissors.c U | day71.c | day72.c | day73.c X | day74.c | day75.c | day76.c | day77.c | D | ⌂ | ...
```

```
1 #include <stdio.h>
2 #include <ctype.h>
3
4 int main() {
5     FILE *fp;
6     char ch;
7     int characters = 0, words = 0, lines = 0;
8     int inWord = 0;
9
10    // Open file
11    fp = fopen("sample.txt", "r");
12
13    if (fp == NULL) {
14        printf("Error! Could not open file.\n");
15        return 1;
16    }
17
18    // Read file character by character
19    while ((ch = fgetc(fp)) != EOF) {
20        characters++;
21
22        // Count lines
23        if (ch == '\n')
24            lines++;
25
26        // Word detection logic
27        if (!isspace(ch) && inWord == 0) {
28            inWord = 1; // Inside a word
29            words++;
30        }
31        else if (isspace(ch)) {
32            inWord = 0; // Outside a word
33        }
34    }
```

Bottom Bar:

- Navigation icons: PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS, SPELL CHECKER.
- Terminal output:

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day73.c -o day73 && "/Users/rishabhtrivedi/Documents/vs/c++/"day73
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day73.c -o day73 && "/Users/rishabhtrivedi/Documents/vs/c++/"da
y73
Error! Could not open file.
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```
- File status indicators: 'Code - c++' and 'Code c++'.
- Page footer: 'Indexing completed.', 'Ln 48, Col 1', 'Spaces: 4', 'UTF-8', 'LF', 'C', 'Go Live', 'macos-clang-x64', 'Prettier'.

A screenshot of the Visual Studio Code (VS Code) interface. The main area shows a C++ code editor with the file `cprojectrockpaperseissors.c` open. The code implements a word counter for a file named `sample.txt`. The code uses `fopen` to open the file, `fgetc` to read characters, and `isspace` to detect whitespace characters. It counts characters, lines, and words, and handles the start and end of words.

```
c++ > cprojectrockpaperseissors.c U day71.c day72.c day73.c day74.c X day75.c day76.c day77.c
1 #include <stdio.h>
2 #include <ctype.h>
3
4 int main() {
5     FILE *fp;
6     char ch;
7     int characters = 0, words = 0, lines = 0;
8     int inWord = 0;
9
10    // Open file
11    fp = fopen("sample.txt", "r");
12
13    if (fp == NULL) {
14        printf("Error! Could not open file.\n");
15        return 1;
16    }
17
18    // Read file character by character
19    while ((ch = fgetc(fp)) != EOF) {
20        characters++;
21
22        // Count lines
23        if (ch == '\n')
24            lines++;
25
26        // Word detection logic
27        if (!isspace(ch) && inWord == 0) {
28            inWord = 1; // Inside a word
29            words++;
30        }
31        else if (isspace(ch)) {
32            inWord = 0; // Outside a word
33        }
34    }
}

```

The left sidebar shows the **EXPLORER** view with a list of files under the `c++` folder, including `day65.c` through `day80.c`. The **OPEN EDITORS** section lists multiple C++ files, with `day74.c` currently selected. The **PROBLEMS** and **OUTPUT** tabs are visible at the bottom of the interface.

The bottom status bar displays the current file path, indexing status, and various system information like the terminal encoding and build tools used.

The screenshot shows a Visual Studio Code (VS Code) interface with the following details:

- Left Sidebar:** Includes icons for Explorer, Search, Issues (501), Problems, Workbench, Terminal, and Help.
- Open Editors:** A list of C++ files under the 'vs' workspace:
 - day71.c
 - day72.c
 - day73.c
 - day74.c
 - day75.c (selected)
 - day76.c
 - day77.c
 - day78.c
 - day79.c
 - day80.c
- Editor Area:** Displays the content of 'day75.c'. The code uses `fopen`, `fprintf`, and `fgets` to append text to 'data.txt'.

```
c++ > cprojectrockpaperseissors.c U day71.c day72.c day73.c day74.c day75.c X day76.c day77.c
c++ > day75.c > ...
1 #include <stdio.h>
2
3 int main() {
4     FILE *fp;
5     char text[200];
6
7     // Open file in append mode
8     fp = fopen("data.txt", "a");
9
10    if (fp == NULL) {
11        printf("Error! Could not open file.\n");
12        return 1;
13    }
14
15    // Take user input
16    printf("Enter text to append: ");
17    fgets(text, sizeof(text), stdin);
18
19    // Append text to file
20    fprintf(fp, "%s", text);
21
22    fclose(fp);
23
24    printf("File updated successfully with appended text.\n");
25
26    return 0;
27 }
```
- Terminal:** Shows the command to build and run the program, followed by the user input and the resulting file update.

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day75.c -o day75 && "/Users/rishabhtrivedi/Documents/vs/c++/"day75
● rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day75.c -o day75 && "/Users/rishabhtrivedi/Documents/vs/c++/"da
y75
Enter text to append: r
File updated successfully with appended text.
○ rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```
- Bottom Status Bar:** Shows indexing status, file paths, and system information.

The screenshot shows the Visual Studio Code (VS Code) interface with a dark theme. The left sidebar contains icons for file operations, search, and other development tools. The Explorer view lists files under a 'vs' folder, including 'c++' and various 'dayXX.c' files. The 'OPEN EDITORS' section shows multiple tabs for different C/C++ files. The main editor area displays the following C++ code:

```
c++ > day90.c > ...
1 #include <stdio.h>
2
3 enum Gender { MALE, FEMALE, OTHER };
4
5 struct Person {
6     enum Gender gender;
7 };
8
9 int main() {
10     struct Person p;
11     p.gender = MALE; // Example input
12
13     switch (p.gender) {
14         case MALE:
15             printf("Male\n");
16             break;
17         case FEMALE:
18             printf("Female\n");
19             break;
20         case OTHER:
21             printf("Other\n");
22             break;
23         default:
24             printf("Invalid gender\n");
25     }
26
27     return 0;
28 }
```

The code defines an enum 'Gender' with three values: MALE, FEMALE, and OTHER. It then defines a struct 'Person' with a 'gender' field of type 'Gender'. In the 'main' function, a 'p' object of type 'Person' is created and its 'gender' is set to MALE. A 'switch' statement is used to print the gender. The output of the code is shown in the terminal below:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day90.c -o day90 && "/Users/rishabhtrivedi/Documents/vs/c++/"day90
● rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day90.c -o day90 && "/Users/rishabhtrivedi/Documents/vs/c++/"da
y90
Male
● rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

The terminal also shows the command to compile and run the program, and the resulting output 'Male'.

The screenshot shows a Visual Studio Code (VS Code) interface with the following details:

- Explorer View:** Shows a tree structure under the 'VS' folder. The 'c++' folder contains files: day65, day65.c, day66, day66.c, day67, day67.c, day68, day68.c, day69, day69.c, day70, day70.c, day71, day71.c, day72, day72.c, day73, day73.c, day74, day74.c, day75, day75.c, day76, day76.c, day77, day77.c, day78, day78.c, day79, day79.c, day80, day80.c, day81, day81.c, and day82, day82.c.
- Open Editors:** A list of files currently being edited. 'day71.c' is the active file, indicated by a blue icon and the word 'U' next to its name. Other files listed include day72.c, day73.c, day74.c, day75.c, day76.c, day77.c, day78.c, day79.c, day80.c, day81.c, and day82.c.
- Editor:** The main workspace shows the content of 'day71.c'. The code is as follows:

```
c++ > cprojectrockpaperseissors.c U
day71.c X
day72.c
day73.c
day74.c
day75.c
day76.c
day77.c
day78.c
day79.c
day80.c
day81.c
day82.c

1 #include <stdio.h>
2
3 int main() {
4     FILE *fp;
5     char name[50];
6     int age;
7
8     // Taking user input
9     printf("Enter your name: ");
10    scanf("%s", name);
11
12    printf("Enter your age: ");
13    scanf("%d", &age);
14
15    // Creating file in write mode
16    fp = fopen("info.txt", "w");
17
18    if (fp == NULL) {
19        printf("Error! Could not create file.\n");
20        return 1;
21    }
22
23    // Writing data into file
24    fprintf(fp, "Name: %s Age: %d", name, age);
25
26    // Closing file
27    fclose(fp);
28
29    printf("File created successfully! Data written to info.txt\n");
30
31    return 0;
32 }

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day71.c -o day71 && "/Users/rishabhtrivedi/Documents/vs/c++/"day71
● rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day71.c -o day71 && "/Users/rishabhtrivedi/Documents/vs/c++/"da
y71
Enter your name: Rishabh trivedi
Enter your age: File created successfully! Data written to info.txt
○ rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

- Terminal:** Shows the command-line session where the code was compiled and run. It includes the command 'cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day71.c -o day71 && "/Users/rishabhtrivedi/Documents/vs/c++/"day71', the prompt '● rishabhtrivedi@Rishabhs-MacBook-Air vs %', the user input 'Enter your name: Rishabh trivedi', the user input 'Enter your age: ', the output 'File created successfully! Data written to info.txt', and the final prompt '○ rishabhtrivedi@Rishabhs-MacBook-Air c++ %'.
- Bottom Status Bar:** Displays indexing information ('Indexing completed.'), file statistics ('Ln 33, Col 1 Spaces: 4 UTF-8 LF {} C'), and various tool icons.

The screenshot shows the Visual Studio Code (VS Code) interface with a dark theme. The left sidebar contains icons for file operations, search, and other development tools. The Explorer panel on the left lists files under a 'vs' folder, including 'day81.c' which is currently selected. The main editor area displays the following C++ code:

```
c++ > C day81.c > ...
1 #include <stdio.h>
2
3 enum Days {
4     SUNDAY,
5     MONDAY,
6     TUESDAY,
7     WEDNESDAY,
8     THURSDAY,
9     FRIDAY,
10    SATURDAY
11 };
12
13 int main() {
14     printf("SUNDAY = %d\n", SUNDAY);
15     printf("MONDAY = %d\n", MONDAY);
16     printf("TUESDAY = %d\n", TUESDAY);
17     printf("WEDNESDAY = %d\n", WEDNESDAY);
18     printf("THURSDAY = %d\n", THURSDAY);
19     printf("FRIDAY = %d\n", FRIDAY);
20     printf("SATURDAY = %d\n", SATURDAY);
21
22     return 0;
23 }
```

The terminal at the bottom shows the output of running the program:

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day81.c -o day81 && "/Users/rishabhtrivedi/Documents/vs/c++/"day81
● rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day81.c -o day81 && "/Users/rishabhtrivedi/Documents/vs/c++/"da
y81
SUNDAY = 0
MONDAY = 1
TUESDAY = 2
WEDNESDAY = 3
THURSDAY = 4
FRIDAY = 5
SATURDAY = 6
○ rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

The status bar at the bottom indicates indexing is completed and shows file paths like 'c++ master*' and tool names like 'macos-clang-x64' and 'Prettier'.

A screenshot of the Visual Studio Code (VS Code) interface, version 1.68.2, showing a C++ development environment.

File Explorer: On the left, the file tree shows a folder named "c++" containing files like day81.c, day82.c, day83.c, day84.c, day85.c, day86.c, day87.c, and day88.c. The file "day88.c" is currently selected.

Open Editors: A list of open files in the background includes day80.c, day81.c, day82.c, day83.c, day84.c, day85.c, day86.c, day87.c, and day88.c.

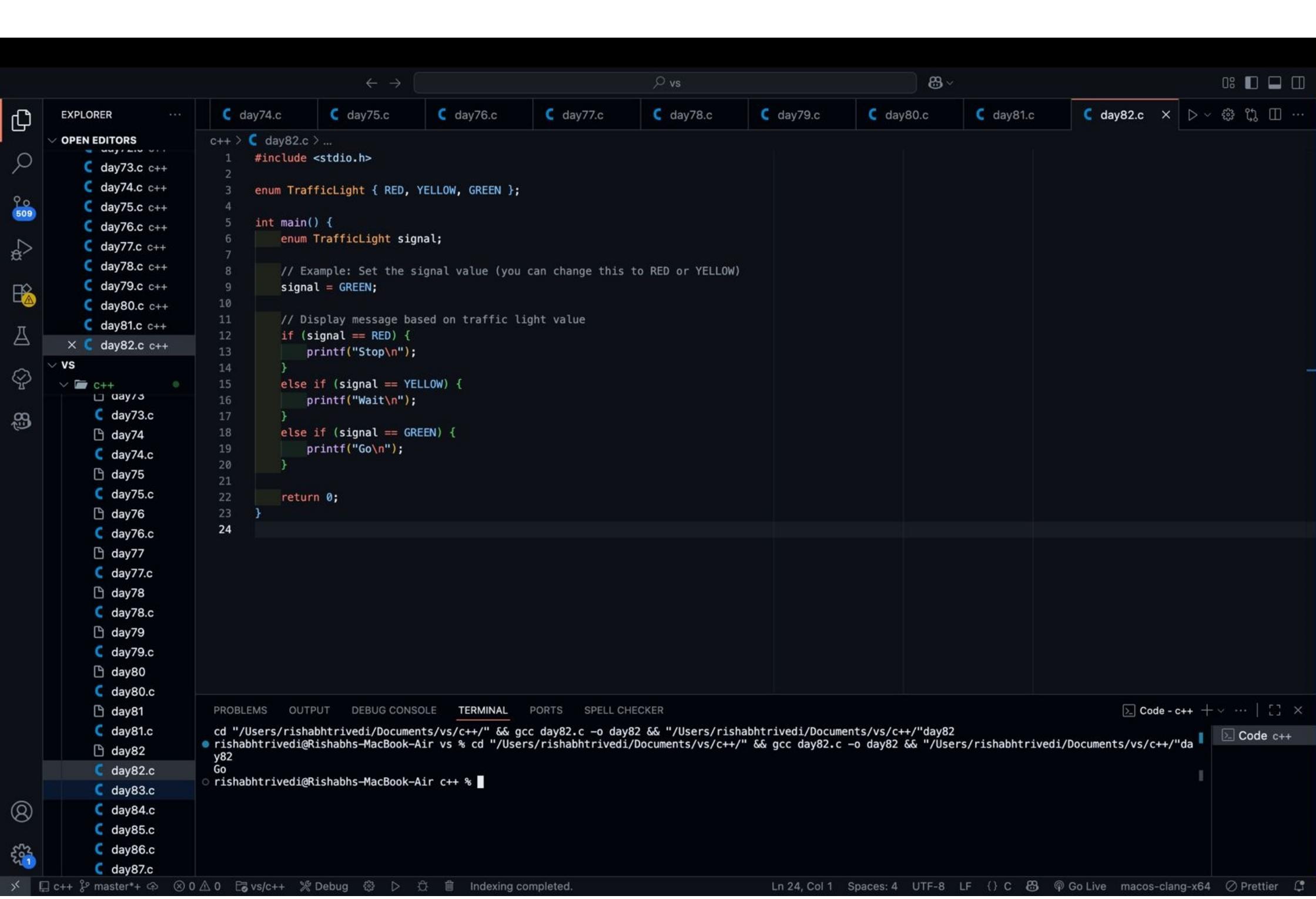
Code Editor: The main area displays the content of "day88.c". The code defines an enum Color with three values: RED, YELLOW, and GREEN. It then prints each color value.

```
c++ > C:\Users\rishabhtrivedi\Documents\vs\c++\day88.c
1 #include <stdio.h>
2
3 enum Color {
4     RED,
5     YELLOW,
6     GREEN
7 };
8
9 int main() {
10
11     enum Color c;
12
13     for (c = RED; c <= GREEN; c++) {
14
15         switch (c) {
16             case RED:
17                 printf("RED=%d\n", c);
18                 break;
19             case YELLOW:
20                 printf("YELLOW=%d\n", c);
21                 break;
22             case GREEN:
23                 printf("GREEN=%d\n", c);
24                 break;
25         }
26     }
27
28     return 0;
29 }
```

Terminal: The bottom right terminal window shows the output of running the program, displaying the values of the enum constants.

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day88.c -o day88 && "/Users/rishabhtrivedi/Documents/vs/c++/"day88
y88
RED=0
YELLOW=1
GREEN=2
```

Status Bar: The bottom bar shows the file path "c++ master*", the line and column number "Ln 30, Col 1", the encoding "UTF-8", and the word count "Spaces: 4". It also indicates indexing is completed and shows system information like "macos-clang-x64" and "Prettier".



The screenshot shows a Visual Studio Code (VS Code) interface with the following details:

- Explorer View:** Shows a tree structure under the 'VS' folder. The 'c++' folder contains files: day73.c, day74.c, day75.c, day76.c, day77.c, day78.c, day79.c (selected), and day80.c.
- Open Editors:** A horizontal bar at the top lists files: day71.c, day72.c, day73.c, day74.c, day75.c, day76.c, day77.c, day78.c, day79.c (selected), and day80.c.
- Editor Area:** Displays the content of the selected file, 'day79.c'. The code reads integers from a file named 'numbers.txt', calculates their sum and average, and prints the results.

```
c++ > C:\Users\rishabhtrivedi\Documents\vs\c++\day79.c
1 #include <stdio.h>
2
3 int main() {
4     FILE *fp;
5     int num;
6     int sum = 0, count = 0;
7     float avg;
8
9     // Open file
10    fp = fopen("numbers.txt", "r");
11    if (fp == NULL) {
12        printf("Error! Could not open file.\n");
13        return 1;
14    }
15
16    // Read integers from the file
17    while (fscanf(fp, "%d", &num) == 1) {
18        sum += num;
19        count++;
20    }
21
22    fclose(fp);
23
24    // Calculate average
25    if (count > 0)
26        avg = (float)sum / count;
27    else
28        avg = 0;
29
30    // Output results
31    printf("Sum = %d\n", sum);
32    printf("Average = %.2f\n", avg);
33
34    return 0;
```
- Terminal:** Shows the command to run the program and an error message.

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day79.c -o day79 && "/Users/rishabhtrivedi/Documents/vs/c++/"day79
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day79.c -o day79 && "/Users/rishabhtrivedi/Documents/vs/c++/"day79
Error! Could not open file.
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```
- Bottom Status Bar:** Shows indexing status, file path (c++ master+), and other system information like 'macos-clang-x64' and 'Prettier'.

The screenshot shows a Visual Studio Code (VS Code) interface with the following details:

- SIDE BAR:** On the left, there's a vertical toolbar with various icons for file operations like Open, Save, Find, and Debug.
- OPEN EDITORS:** A sidebar titled "OPEN EDITORS" lists all files in the project: day71.c, day72.c, day73.c, day74.c, day75.c, day76.c, day77.c, day78.c, day79.c, and day80.c. The file "day80.c" is currently selected and has a green icon next to it.
- EDITOR PANES:** The main area contains several code editor panes. The active pane shows the content of "day80.c". The code reads user input for the number of students, opens a file named "students.txt" for writing, and then loops to read each student's name, roll number, and marks, printing them to the file.
- TERMINAL:** At the bottom, the terminal window shows the command "cd /Users/rishabhtrivedi/Documents/vs/c++/" && gcc day80.c -o day80 && "/Users/rishabhtrivedi/Documents/vs/c++/"day80" followed by the output of the program. The user enters "Enter number of students: 4", "Enter name: rishabh", and "Enter roll number: ". The terminal also indicates "Indexing completed."
- STATUS BAR:** The bottom status bar shows the current file is "c++ master*+", the line and column are "Ln 54, Col 1", and the encoding is "UTF-8". It also includes icons for Go Live, macos-clang-x64, and Prettier.

A screenshot of the Visual Studio Code (VS Code) interface, version 1.68.2, showing a C++ project named "vs".

The Explorer sidebar on the left shows a tree view of files under the "vs" folder, including "c++" and various "dayXX.c" files from day76 to day88.

The Open Editors panel shows multiple tabs for "dayXX.c" files, with "day86.c" currently active. The code in "day86.c" defines an enum "Operation" with three values: ADD, SUBTRACT, and MULTIPLY. It then uses a switch statement to perform the corresponding arithmetic operation based on the value of "op". If "op" is not one of the defined constants, it prints an error message.

```
c++ > day86.c > ...
1 #include <stdio.h>
2
3 enum Operation {
4     ADD,
5     SUBTRACT,
6     MULTIPLY
7 };
8
9 int main() {
10     enum Operation op;
11     int a, b;
12
13     // Example input: ADD 10 20
14     op = ADD;
15     a = 10;
16     b = 20;
17
18     switch (op) {
19         case ADD:
20             printf("%d\n", a + b);
21             break;
22
23         case SUBTRACT:
24             printf("%d\n", a - b);
25             break;
26
27         case MULTIPLY:
28             printf("%d\n", a * b);
29             break;
30
31         default:
32             printf("Invalid operation\n");
33     }
34 }
```

The bottom status bar indicates "Indexing completed." and shows various system and extension status icons.

The screenshot shows a Visual Studio Code (VS Code) interface with the following details:

- File Explorer:** On the left, under the "OPEN EDITORS" section, the file "day78.c" is currently selected.
- Editor:** The main area displays the following C++ code:

```
c++ > C day78.c > ...
1 #include <stdio.h>
2 #include <ctype.h>
3
4 int main() {
5     FILE *fp;
6     char ch;
7     int vowels = 0, consonants = 0;
8
9     // Open the file
10    fp = fopen("text.txt", "r");
11    if (fp == NULL) {
12        printf("Error: Could not open file.\n");
13        return 1;
14    }
15
16    // Read character by character
17    while ((ch = fgetc(fp)) != EOF) {
18        ch = tolower(ch); // Convert to lowercase for easy comparison
19
20        if (ch >= 'a' && ch <= 'z') {           // Consider only alphabets
21            if (ch == 'a' || ch == 'e' || ch == 'i' ||
22                ch == 'o' || ch == 'u') {
23                vowels++;
24            } else {
25                consonants++;
26            }
27        }
28    }
29
30    fclose(fp);
31
32    // Output results
33    printf("Vowels: %d\n", vowels);
34    printf("Consonants: %d\n", consonants);
```
- Terminal:** At the bottom, the terminal window shows the command run and its output:

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day78.c -o day78 && "/Users/rishabhtrivedi/Documents/vs/c++/"day78
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day78.c -o day78 && "/Users/rishabhtrivedi/Documents/vs/c++/"da
y78
Error: Could not open file.
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```
- Status Bar:** The bottom status bar indicates "Indexing completed." and shows various system and application status icons.