

The screenshot shows a dark-themed code editor interface with a sidebar on the left containing various icons and a list of open files. The main area displays a C program for calculating the number of days in a given month. The terminal below shows the execution of the program and its output.

OPEN EDITORS

VS

C++

- Typedef.c A
- upes A
- upes.c A
- upes2.c A
- voidPoin... A
- voidPoin... A
- WildPoin... A
- WildPoin... A

java files

- A.class U
- Avocycl... U
- Base.cla... U
- Bicycle.... U
- c.c U
- C1.class U
- child2.cl... U
- child3.cl... U
- Cylinder... U
- day11 U
- day11.2 U
- day11.2.c U
- day11.c U
- day12 U
- day12.2 U
- day12.2.c U
- day12.c U
- day13 U
- day13.2 U
- day13.2.c U
- day13.c U
- java.class U
- java0.java U
- java2.java U
- java2d.j... U
- java6.java U

~/Documents/vs/java files/day11.c • Untracked

```
#include <stdio.h>
int main() {
    int month;
    // Input month number
    printf("Enter month number (1-12): ");
    scanf("%d", &month);
    // Display month name and number of days
    switch (month) {
        case 1:
            printf("January - 31 days\n");
            break;
        case 2:
            printf("February - 28 or 29 days\n");
            break;
        case 3:
            printf("March - 31 days\n");
            break;
        case 4:
            printf("April - 30 days\n");
            break;
        case 5:
            printf("May - 31 days\n");
            break;
        case 6:
            printf("June - 30 days\n");
            break;
        case 7:
            printf("July - 31 days\n");
            break;
        case 8:
            printf("August - 31 days\n");
            break;
        case 9:
```

TERMINAL

```
cd "/Users/rishabhtrivedi/Documents/vs/java files/" && gcc day11.c -o day11 && "/Users/rishabhtrivedi/Documents/vs/java files/" day11
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/java files/" && gcc day11.c -o day11 && "/Users/rishabhtrivedi/Documents/vs/java files/" day11
Enter month number (1-12): 4
April - 30 days
rishabhtrivedi@Rishabhs-MacBook-Air java files %
```

STATUS

Indexing completed.

Ln 54, Col 1 Spaces: 4 UTF-8 LF ⚡ Go Live macos-clang-x64 Prettier

The screenshot shows a dark-themed interface of the Visual Studio Code (VS Code) code editor. The left sidebar contains icons for file operations like Open Editors, Find, Replace, and Save. The Explorer sidebar lists files and folders, including a folder named 'VS' containing C++ files like 'Typedef.c', 'upes', 'upes.c', 'upes2.c', 'voidPoin...', 'voidPoin...', 'WildPoin...', 'WildPoin...', and Java files like 'A.class', 'Avocycl...', 'Base.cl...', 'Bicycle...', 'c.c', 'C1.class', 'child2.cl...', 'child3.cl...', 'Cylinder...', 'day11', 'day11.2', 'day11.2.c', 'day11.c', 'day12', 'day12.2', 'day12.2.c', 'day12.c', 'day13', 'day13.2', 'day13.2.c', 'day13.c', 'java.class', 'java0.java', 'java2.java', 'java2d.j...', 'java6.java'. A '287' badge is visible next to the 'VS' folder. The main editor area displays a C program for calculating profit or loss based on cost and selling prices. The terminal below shows the execution of the program and its output. The status bar at the bottom provides build information and system details.

```
1 #include <stdio.h>
2
3 int main() {
4     float costPrice, sellingPrice, profit, loss, percentage;
5
6     // Input cost price and selling price
7     printf("Enter Cost Price: ");
8     scanf("%f", &costPrice);
9
10    printf("Enter Selling Price: ");
11    scanf("%f", &sellingPrice);
12
13    // Check for profit or loss
14    if (sellingPrice > costPrice) {
15        profit = sellingPrice - costPrice;
16        percentage = (profit / costPrice) * 100;
17        printf("Profit = %.2f\n", profit);
18        printf("Profit Percentage = %.2f%%\n", percentage);
19    }
20    else if (costPrice > sellingPrice) {
21        loss = costPrice - sellingPrice;
22        percentage = (loss / costPrice) * 100;
23        printf("Loss = %.2f\n", loss);
24        printf("Loss Percentage = %.2f%%\n", percentage);
25    }
26    else {
27        printf("No Profit, No Loss.\n");
28    }
29
30    return 0;
31}
32
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

```
cd "/Users/rishabhtrivedi/Documents/vs/java files/" && gcc day11.2.c -o day11.2 && "/Users/rishabhtrivedi/Documents/vs/java files/"day11.2
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/java files/" && gcc day11.2.c -o day11.2 && "/Users/rishabhtrivedi/Documents/vs/java files/"day11.2
Enter Cost Price: 1223
Enter Selling Price: 12345
Profit = 11122.00
Profit Percentage = 909.40%
rishabhtrivedi@Rishabhs-MacBook-Air java files %
```

Ln 32, Col 1 Spaces: 4 UTF-8 LF () C Go Live macos-clang-x64 Prettier

The screenshot shows a dark-themed code editor interface with various toolbars and panels.

EXPLORER panel (left):

- c++** folder:
 - Typedef.c
 - upes
 - upes.c
 - upes2.c
 - voidPoin...
 - voidPoin...
 - WildPoin...
 - WildPoin...
- java files** folder:
 - A.class
 - Avocycl...
 - Base.cl...
 - Bicycle...
 - c.c
 - C1.class
 - child2.cl...
 - child3.cl...
 - Cylinder...
 - day11
 - day11.2
 - day11.2.c
 - day11.c
 - day12
 - day12.2
 - day12.2.c
 - day12.c
 - day13
 - day13.2
 - day13.2.c
 - day13.c
 - java.class
 - java0.java
 - java2.java
 - java2d.j...
 - java6.java

OPEN EDITORS tab bar (top):

- day11.c
- day11.2.c
- day12.c
- day12.2.c
- day13.c
- day13.2.c
- test1.c
- 23.c
- day14.c

CODE tab bar (top):

- vs
- day12.c
- day12.2.c
- day13.c
- day13.2.c
- test1.c
- 23.c
- day14.c

TERMINAL panel (bottom):

```
cd "/Users/rishabhtrivedi/Documents/vs/java files/" && gcc day12.c -o day12 && "/Users/rishabhtrivedi/Documents/vs/java files/"day12
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/java files/" && gcc day12.c -o day12 && "/Users/rishabhtrivedi/Documents/vs/
java files/"day12
Enter number of days late: 34
Membership Cancelled.
rishabhtrivedi@Rishabhs-MacBook-Air java files %
```

Bottom status bar:

Ln 28, Col 1 Spaces: 4 UTF-8 LF () C Go Live macos-clang-x64 Prettier

EXPLORER

OPEN EDITORS

VS

- C TypesDef.c A
- types L
- upes.c A
- upes2.c A
- voidPoint... A
- voidPoint... A
- WildPoint... A
- WildPoint... A
- java files -
- A.class U
- Avocycl U
- BaseClass U
- Dicycle... U
- c.c U
- C1.class U
- child2.cl... U
- child3.cl... U
- Cylinder... U
- day11 U
- day11.2 U
- day11.c U
- day12 U
- day12.2 U
- day12.2.c U
- day12.c U
- day13 U
- day13.2 U
- dev11.c U
- day11.2.c U
- day12.c U
- day12.2.c U X
- day13.c U
- day13.2.c U
- test1.c U
- E3.c U
- day11.a U

```

day11.c U      day11.2.c U      day12.c U      day12.2.c U X      day13.c U      day13.2.c U      test1.c U      E3.c U      day11.a U
File: day12.2.c >
1  #include <stdio.h>
2
3  int main() {
4      int units;
5      float bill = 0;
6
7      // Input units consumed
8      printf("Enter the number of units consumed: ");
9      scanf("%d", &units);
10
11     // Calculate bill based on unit slabs
12     if (units <= 100)
13         bill = units * 5;
14     else if (units <= 200)
15         bill = (100 * 5) + (units - 100) * 7;
16     else if (units <= 300)
17         bill = (100 * 5) + (100 * 7) + (units - 200) * 10;
18     else
19         bill = (100 * 5) + (100 * 7) + (100 * 10) + (units - 300) * 12;
20
21     // Display total bill
22     printf("Total Electricity Bill = %.2f\n", bill);
23
24     return 0;
25 }
26

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL POINTS SPELL CHECKER

```

cd "/Users/rishabhtrivedi/Documents/vs/java files/" && gcc day12.2.c -o day12.2 && "/Users/rishabhtrivedi/Documents/vs/java files/" && gcc day12.2.c -o day12.2 && "/Users/rishabhtrivedi/Documents/vs/java files/" "day12.2
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/java files/" && gcc day12.2.c -o day12.2 && "/Users/rishabhtrivedi/Documents/vs/java files/" "day12.2
/rishabhtrivedi@Rishabhs-MacBook-Air vs % /vs/java files/" "day12.2
Enter the number of units consumed: 23
Total Electricity Bill = ₹115.00
rishabhtrivedi@Rishabhs-MacBook-Air java files % 

```

File 18, Cell 1 100% 100% 100% 100% 100% 100% 100% 100%

indicating completion

A screenshot of a dark-themed code editor, likely Visual Studio Code, showing a file named `day13.c`. The code implements a simple calculator program using `scanf` and `printf` functions. It prompts the user for two numbers and an operator (+, -, *, /, %), then performs the calculation and prints the result. The code editor interface includes an Explorer sidebar on the left listing files, a top navigation bar with tabs for different files, and a bottom status bar with terminal output and file statistics.

```
#include <stdio.h>
int main() {
    float num1, num2, result;
    char op;

    // Input two numbers and an operator
    printf("Enter first number: ");
    scanf("%f", &num1);

    printf("Enter an operator (+, -, *, /, %): ");
    scanf(" %c", &op); // Note the space before %c to ignore previous newline

    printf("Enter second number: ");
    scanf("%f", &num2);

    // Perform operation based on operator
    switch (op) {
        case '+':
            result = num1 + num2;
            printf("Result = %.2f\n", result);
            break;
        case '-':
            result = num1 - num2;
            printf("Result = %.2f\n", result);
            break;
        case '*':
            result = num1 * num2;
            printf("Result = %.2f\n", result);
            break;
        case '/':
            if (num2 != 0)
                printf("Result = %.2f\n", num1 / num2);
            else
                printf("Error: Division by zero is not allowed.\n");
            break;
    }
}
```

The Explorer sidebar shows the following file structure:

- VS
- c++
 - Typedef.c
 - upes.c
 - upes2.c
 - voidPoin... A
 - voidPoin... A
 - WildPoin... A
 - WildPoin... A
- java files
 - A.class
 - Avocycl...
 - Base.cl...
 - Bicycle....
 - c.c
 - C1.class
 - child2.cl...
 - child3.cl...
 - Cylinder...
 - day11
 - day11.2
 - day11.2.c
 - day11.c
 - day12
 - day12.2
 - day12.2.c
 - day12.c
 - day13
 - day13.2
 - day13.2.c
 - day13.c
 - java.class
 - java0.java
 - java2.java
 - java2d.j...
 - java6.java

The top navigation bar shows tabs for various files: day11.c, day11.2.c, day12.c, day12.2.c, day13.c (which is the active tab), day13.2.c, test1.c, 23.c, day14.c, and Untracked. The status bar at the bottom displays the current line (Ln 50), column (Col 1), spaces (Spaces: 4), encoding (UTF-8), line feed (LF), character set (C), indexing completed, and file statistics (macos-clang-x64, Prettier).

The screenshot shows a dark-themed code editor interface, likely Visual Studio Code, with various toolbars and panels.

EXPLORER panel (left):

- C++** folder:
 - Typedef.c
 - upes
 - upes.c
 - upes2.c
 - voidPoin...
 - voidPoin...
 - WildPoin...
 - WildPoin...
- java files** folder:
 - A.class
 - Avocycl...
 - Base.cl...
 - Bicycle...
 - c.c
 - C1.class
 - child2.cl...
 - child3.cl...
 - Cylinder...
 - day11
 - day11.2
 - day11.2.c
 - day11.c
 - day12
 - day12.2
 - day12.2.c
 - day12.c
 - day13
 - day13.2
 - day13.2.c
 - day13.c
 - java.class
 - java0.java
 - java2.java
 - java2d...

OPEN EDITORS panel (top center):

- day11.c
- day11.2.c
- day12.c
- day12.2.c
- day13.c
- day13.2.c (highlighted)
- test1.c
- 23.c
- day14.c

CODE panel (center):

```
#include <stdio.h>
int main() {
    int n, i;
    // Input the value of n
    printf("Enter the value of n: ");
    scanf("%d", &n);
    // Print numbers from 1 to n
    printf("Numbers from 1 to %d are:\n", n);
    for (i = 1; i <= n; i++) {
        printf("%d\n", i);
    }
    return 0;
}
```

TERMINAL panel (bottom center):

```
/vs/java files/"day13.2
Enter the value of n: 4
Numbers from 1 to 4 are:
1
2
3
4
```

STATUS BAR (bottom right):

Ln 18, Col 1 Spaces: 4 UTF-8 ⚡ Go Live macos-clang-x64 Prettier

The screenshot shows a dark-themed code editor interface, likely Visual Studio Code, displaying a C++ file named `day14.c`. The code calculates the sum of the first `n` odd numbers.

```
#include <stdio.h>
int main() {
    int n, i, sum = 0;
    printf("Enter the value of n: ");
    scanf("%d", &n);
    for (i = 1; i <= n; i++) {
        sum += (2 * i - 1); // Formula for the i-th odd number
    }
    printf("Sum of first %d odd numbers = %d\n", n, sum);
    return 0;
}
```

The terminal below shows the execution of the program:

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day14.c -o day14 && "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day14.c -o day14 && "/Users/rishabhtrivedi/Documents/vs/c++/" da
y14
rishabhtrivedi@Rishabhs-MacBook-Air ~ % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day14.c -o day14 && "/Users/rishabhtrivedi/Documents/vs/c++/" da
y14
Enter the value of n: 5
Sum of first 5 odd numbers = 25
rishabhtrivedi@Rishabhs-MacBook-Air ~ %
```

At the bottom, the status bar indicates: Ln 20, Col 1 Spaces: 4 UTF-8 LF (C Go Live macos-clang-x64 Prettier

EXPLORED

OPEN EDITORS

VS

C++

C

C

C

C

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The screenshot shows a dark-themed code editor interface, likely Visual Studio Code, displaying a C++ program named `day15.c`. The code calculates the factorial of a given number, handling negative input by printing an error message. It uses a loop to calculate the factorial and prints the result.

```
int main() {
    int n;
    printf("Enter a number: ");
    scanf("%d", &n);

    // Check for negative input
    if (n < 0) {
        printf("Factorial is not defined for negative numbers.\n");
    }
    else {
        // Calculate factorial using loop
        for (int i = 1; i <= n; i++) {
            fact *= i;
        }

        // Display result
        printf("Factorial of %d = %lld\n", n, fact);
    }
    return 0;
}
```

The code editor's sidebar shows a list of files, with `day15.c` currently selected. The bottom right corner displays the terminal output, showing the execution of the program and its output for `n = 5`.

Terminal Output:

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day15.c -o day15 && "/Users/rishabhtrivedi/Documents/vs/c++/" day15
rishabhtrivedi@Rishabh-MacBook-Air ~ % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc day15.c -o day15 && "/Users/rishabhtrivedi/Documents/vs/c++/" day15
y15
Enter a number: 5
Factorial of 5 = 120
rishabhtrivedi@Rishabh-MacBook-Air ~ %
```

Bottom status bar:

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

The screenshot shows a dark-themed interface of the Visual Studio Code (VS Code) code editor. The main area displays a C++ program named `15.2.c`. The code reads a number from the user, reverses it digit by digit, and prints the result. The code editor has tabs for multiple files, with `15.2.c` currently selected.

```
#include <stdio.h>
int main() {
    int num, reversed = 0, remainder;
    // Input number from user
    printf("Enter a number: ");
    scanf("%d", &num);
    // Reverse the number
    while (num != 0) {
        remainder = num % 10;           // Get last digit
        reversed = reversed * 10 + remainder; // Build reversed number
        num = num / 10;                // Remove last digit
    }
    // Display reversed number
    printf("Reversed number = %d\n", reversed);
    return 0;
}
```

Below the code editor is a terminal window showing the execution of the program. The user enters the number 5, and the program outputs "Reversed number = 5".

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc 15.2.c -o 15.2 && "/Users/rishabhtrivedi/Documents/vs/c++/"15.2
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc 15.2.c -o 15.2 && "/Users/rishabhtrivedi/Documents/vs/c++/"15.2
Enter a number: 5
Reversed number = 5
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```

The bottom status bar indicates the current file is `c++ master*`, there are 0 errors and 0 warnings, and indexing is completed. The terminal also shows the path `/Users/rishabhtrivedi/Documents/vs/c++/` and the command `gcc 15.2.c -o 15.2`.