🏫 C Programming Lab Report

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💼 **Subject: Programming in C**

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9	Convert temperature between Celsius and Fahrenheit

Experiment 1: Write a C program to read the value of an integer m and display the value of n

is 1 when m is larger than 0, 0 when m is 0 and -1 when m is less than 0.

Code:

main.c

```c
#include <stdio.h>

int main() {
    int m, n;

    printf("Enter a number (m): ");
    scanf("%d", &m);

    if (m > 0) {
        n = 1;
    } else if (m == 0) {
        n = 0;
    } else {
        n = -1;
    }

    printf("The value of n = %d\n", n);

    return 0;
}
```

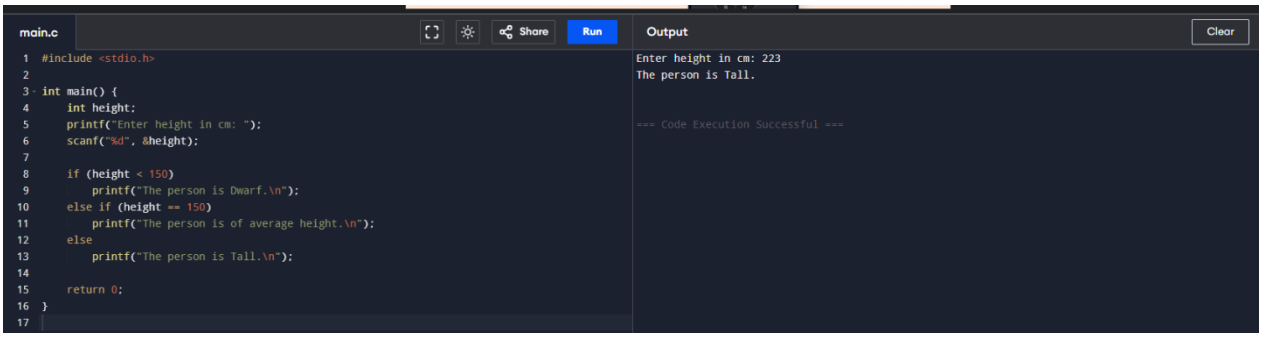
==>>Output

```
Enter a number (m): 7
The value of n = 1


=== Code Execution Successful ===
```

2.Categorize person by height

Objective:
To check if a person is dwarf, average, or tall based on height.



Input: 223

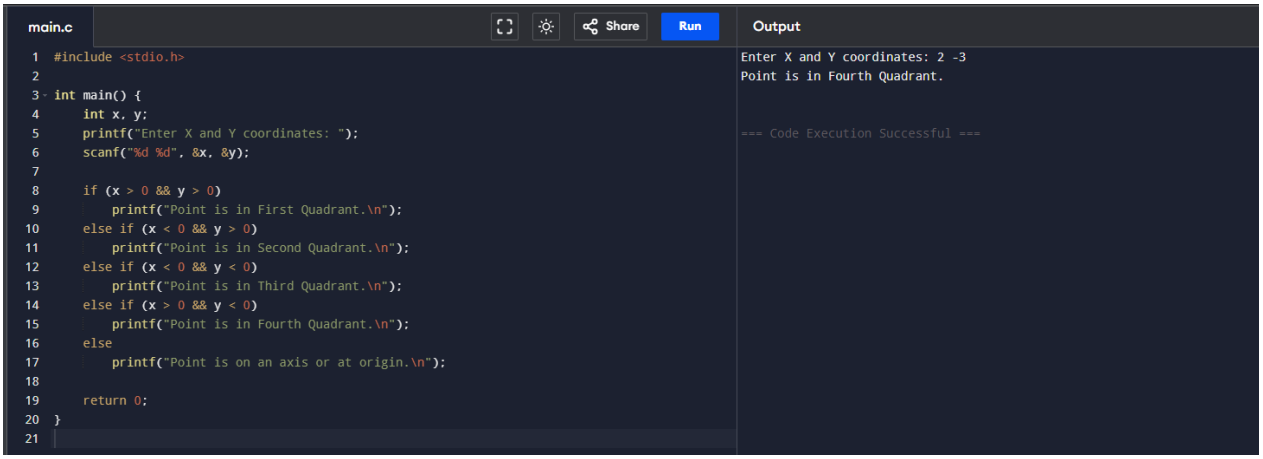
Output:

The person is Tall.

3. Find quadrant of a coordinate point

Objective:
To determine the quadrant where a point (x, y) lies.

Code:



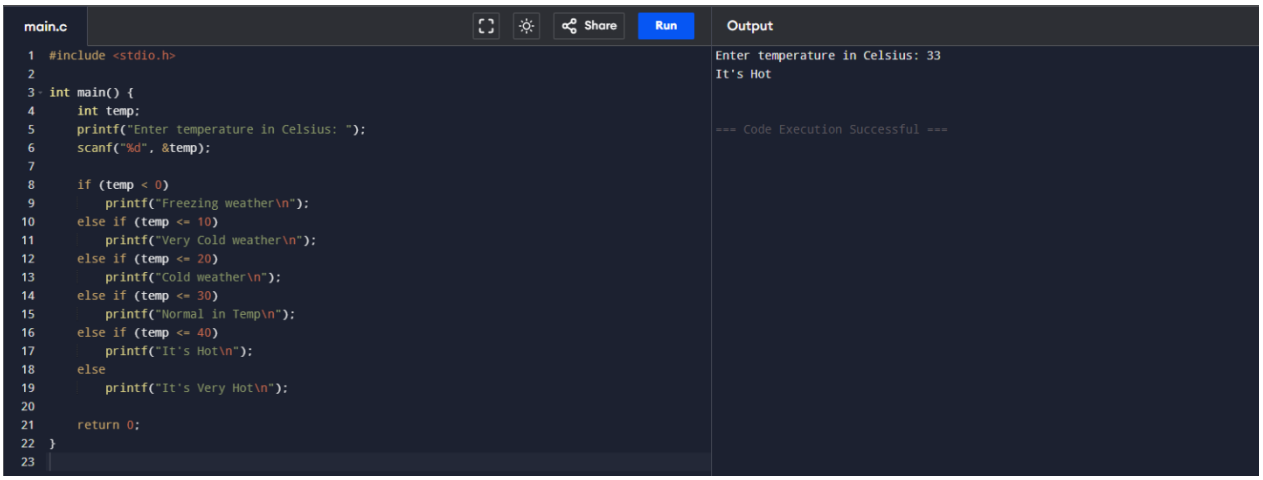
Input: 2 -3

Output : Point is in Fourth Quadrant.

Experiment 4: Temperature Message

Display weather message based on temperature.

Code:



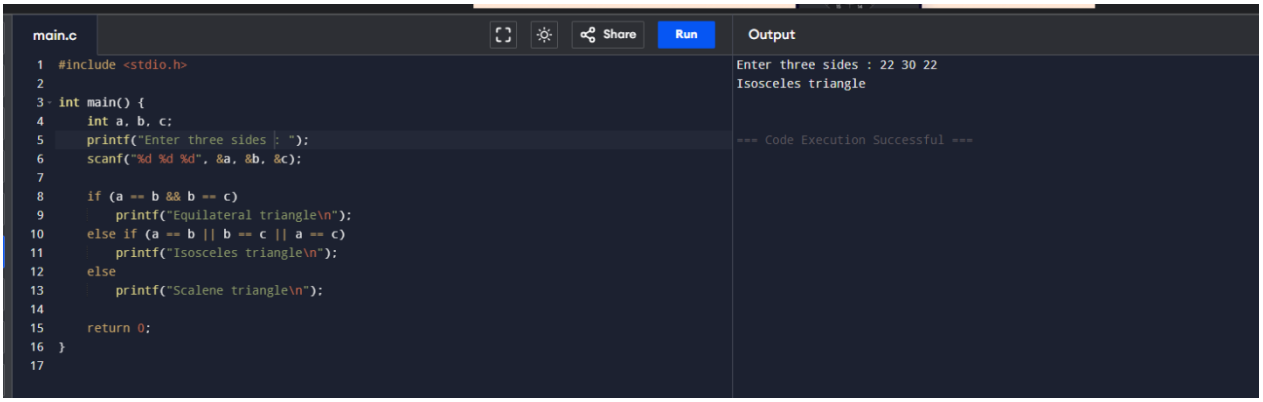
Input: 33

Output : It's Hot.

Experiment **5.** Write a C program to check whether a triangle is Equilateral, Isosceles, or

Scalene.

Code:

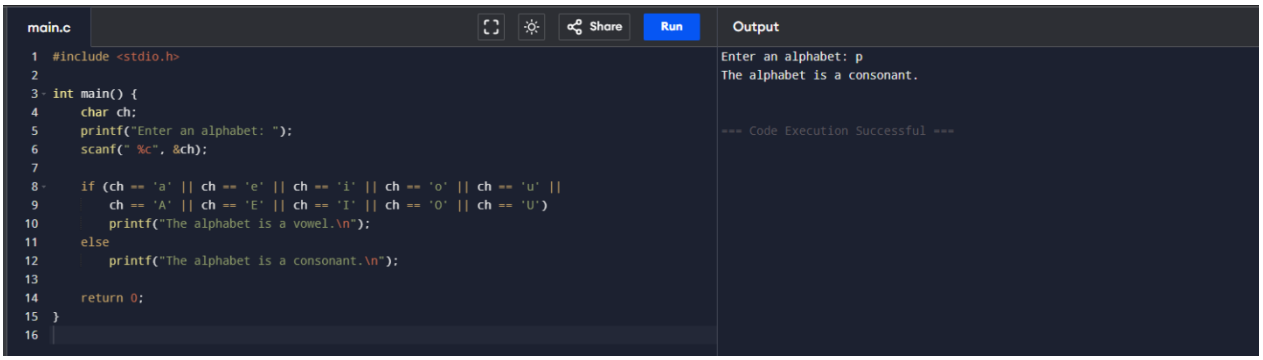


Input: 22 30 22

Output : Isosceles triangle

Experiment 6 : Write a C program to check whether an alphabet is a vowel or a consonant.

Code :

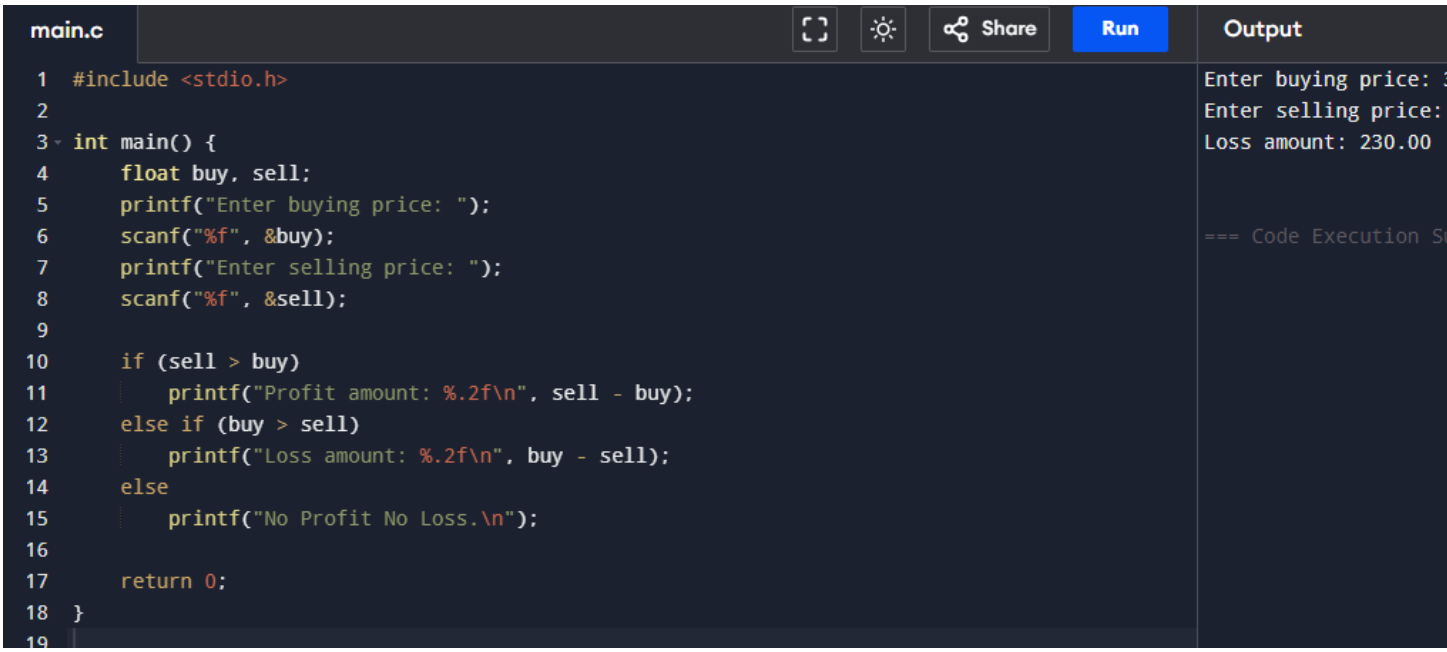


Input: p

Output : The alphabet is a consonant.

Experiment 7: Write a C program to calculate profit and loss on a transaction.

Code:

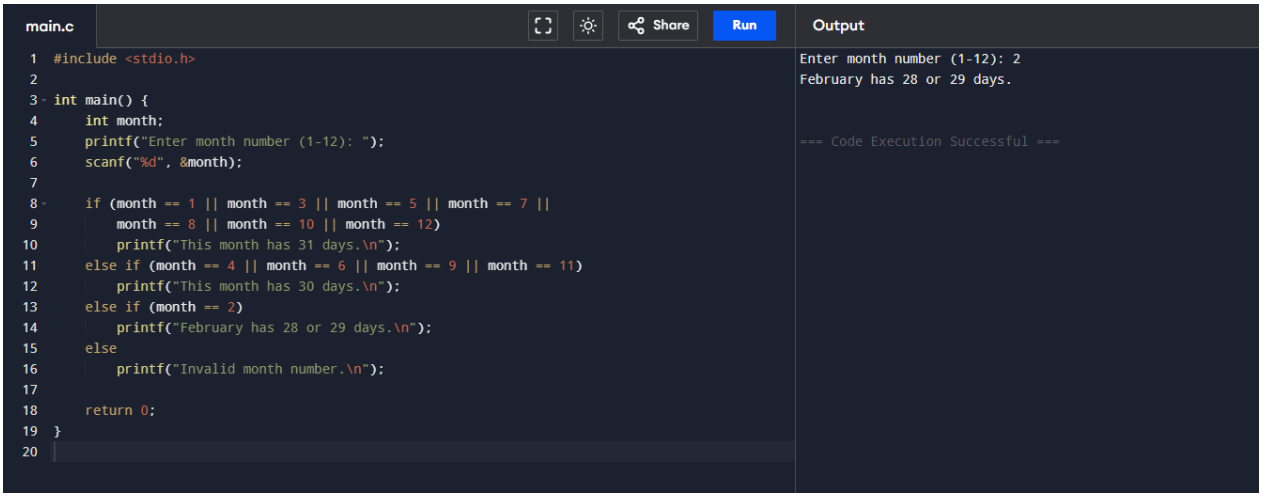


Input: 330,100

Output : Loss amount: 230.00

Experiment 8 : Write a program in C to read any Month Number in an integer and display the number of days for this month.

Code:



Input: 2

Output : February has 28 or 29 days.

Experiment 9 : Write a program in C to convert temperature from Fahrenheit to Celsius and

Celsius to Fahrenheit.

Code:

main.c

Share Run

```c
#include <stdio.h>

int main() {
    char choice;
    float temp, result;

    printf("Enter your choice: ");
    scanf(" %c", &choice);

    if (choice == 'c') {
        printf("Enter temperature in Fahrenheit: ");
        scanf("%f", &temp);
        result = (temp - 32) * 5 / 9;
        printf("Temperature in Celsius: %.2f\n", result);
    } else if (choice == 'f') {
        printf("Enter temperature in Celsius: ");
        scanf("%f", &temp);
        result = (temp * 9 / 5) + 32;
        printf("Temperature in Fahrenheit: %.2f\n", result);
    } else {
        printf("Invalid choice.\n");
    }

    return 0;
}

```

Output

```
Enter your choice: f
Enter temperature in Celsius: 44
Temperature in Fahrenheit: 111.20


=== Code Execution Successful ===
```

Input: f,44

Output : Temperature in Fahrenheit: 111.20