```c
#include <stdio.h>

int main() {
    int num1, num2, num3, max_val;

    printf("Enter three numbers: ");
    scanf("%d %d %d", &num1, &num2,
        &num3);

    if (num1 > num2) {
        if (num1 > num3) {
            max_val = num1;
        } else {
            max_val = num3;
        }
    } else { // num2 >= num1
        if (num2 > num3) {
            max_val = num2;
        } else {
            max_val = num3;
        }
    }

    printf("The maximum number is:
        %d\n", max_val);

    return 0;
}
```

Run

```
Enter three numbers: 2
3
4
The maximum number is: 4


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

```c
#include <stdio.h>

int main() {
    int num1, num2, num3;

    printf("Enter three integers: ");

    scanf("%d %d %d", &num1, &num2, &num3);

    if (num1 >= num2 && num1 >= num3) {
        printf("The largest number is: %d\n",
            num1);
    } else if (num2 >= num1 && num2 >= num3) {
        printf("The largest number is: %d\n",
            num2);
    } else {
        printf("The largest number is: %d\n",
            num3);
    }

    return 0;
}
```

Output

```
Enter three integers: 4

5
6
The largest number is: 6


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

```c
#include <stdio.h>

int main() {
    int num1, num2, num3, max;

    printf("Enter three numbers: ");

    scanf("%d %d %d", &num1, &num2, &num3);

    max = (num1 > num2) ? ((num1 > num3) ? num1
        : num3) : ((num2 > num3) ? num2 : num3
        );

    printf("The maximum number is: %d\n", max);

    return 0;
}
```

```
Enter three numbers: 5
6
1
The maximum number is: 6


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

```c
//PROGRAM TO READ A CHARACTER AND CHECK WHETHER IT IS A SMALL CASE LETTER OR NOT USING CONDATIONAL OPERATOR.

#include<stdio.h>

int main()
{
    char i;
    printf("Enter any character:");
    scanf("%c", &i);

    if(i>='a' && i<='z')
    {
        printf("The character is small case letter");
    }
    else
    {
        printf("The character is not small scale");
    }


    return 0;
}
```

Run

```
Enter any character:a
The character is small case letter

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

```c
#include <stdio.h>

int main()
{
    char op;
    float num1, num2, result=0.0f;

    printf("Enter [number 1] [+ - * /] [number
        2]\n");


    scanf("%f %c %f", &num1, &op, &num2);

    switch(op)
    {
        case '+':
            result = num1 + num2;
            break;

        case '-':
            result = num1 - num2;
            break;

        case '*':
            result = num1 * num2;
            break;

        case '/':
            result = num1 / num2;
            break;

        default:
            printf("Invalid operator");
    }

    printf("%.2f %c %.2f = %.2f", num1, op,
        num2, result);

    return 0;
}
```

```
Enter [number 1] [+ - * /] [number 2]
3
+
4
3.00 + 4.00 = 7.00

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

```c
#include <stdio.h>

int main()
{
    char op;
    float num1, num2, result=0.0f;

    printf("Enter [number 1] [+ - * /] [number
        2]\n");


    scanf("%f %c %f", &num1, &op, &num2);

    switch(op)
    {
        case '+':
            result = num1 + num2;
            break;

        case '-':
            result = num1 - num2;
            break;

        case '*':
            result = num1 * num2;
            break;

        case '/':
            result = num1 / num2;
            break;

        default:
            printf("Invalid operator");
    }

    printf("%.2f %c %.2f = %.2f", num1, op,
        num2, result);

    return 0;
}
```

```
Enter [number 1] [+ - * /] [number 2]
3
+
4
3.00 + 4.00 = 7.00

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

```c
#include <stdio.h>

int main() {
    int n, i;
    unsigned int fact = 1; // Use unsigned int for larger factorials

    printf("Enter a positive integer: ");
    scanf("%d", &n);

    if (n < 0) {
        printf("Factorial is not defined for negative numbers.\n");
    } else {
        for (i = 1; i <= n; i++) {
            fact *= i; // Multiply fact by the current number
        }
        printf("Factorial of %d is %d\n", n, fact);
    }
    return 0;
}
```

Run

```
Enter a positive integer: -7
Factorial is not defined for negative
    numbers.


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

```c
#include <stdio.h>

int main() {
    int base, exponent;
    int result = 1;

    printf("Enter the base number: ");
    scanf("%d", &base);

    printf("Enter the exponent (a non-negative
        integer): ");
    scanf("%d", &exponent);

    if (exponent == 0) {
        result = 1;
    } else {


        for (int i = 0; i < exponent; i++) {
            result *= base;
        }
    }

    printf("%d raised to the power of %d is:
        %d\n", base, exponent, result);

    return 0;
}
```

Output

Clear

```
Enter the base number: 7
Enter the exponent (a non-negative integer): 2
7 raised to the power of 2 is: 49


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