

```
1  #include <stdio.h>
2
3  int main() {
4      int num1, num2, num3, max_val;
5
6      printf("Enter three numbers: ");
7      scanf("%d %d %d", &num1, &num2,
8          &num3);
9
10     if (num1 > num2) {
11         if (num1 > num3) {
12             max_val = num1;
13         } else {
14             max_val = num3;
15         }
16     } else { // num2 >= num1
17         if (num2 > num3) {
18             max_val = num2;
19         } else {
20             max_val = num3;
21         }
22     }
23
24     printf("The maximum number is:
25         %d\n", max_val);
26 }
```

[Run](#)

Enter three numbers: 2

3

4

The maximum number is: 4

=== Code Execution Successful ===

```
1  #include <stdio.h>
2
3  int main() {
4      int num1, num2, num3;
5
6      printf("Enter three integers: ");
7
8      scanf("%d %d %d", &num1, &num2, &num3);
9
10     if (num1 >= num2 && num1 >= num3) {
11         printf("The largest number is: %d\n",
12             num1);
13     } else if (num2 >= num1 && num2 >= num3) {
14         printf("The largest number is: %d\n",
15             num2);
16     } else {
17         printf("The largest number is: %d\n",
18             num3);
19     }
20
21     return 0;
22 }
```

## Output

Enter three integers: 4

5

6

The largest number is: 6

=== Code Execution Successful ===

```
1  #include <stdio.h>
2
3  int main() {
4      int num1, num2, num3, max;
5
6      printf("Enter three numbers: ");
7
8      scanf("%d %d %d", &num1, &num2, &num3);
9
10     max = (num1 > num2) ? ((num1 > num3) ? num1
        : num3) : ((num2 > num3) ? num2 : num3
        );
11
12     printf("The maximum number is: %d\n", max);
13
14     return 0;
15 }
```

Enter three numbers: 5

6

1

The maximum number is: 6

=== Code Execution Successful ===

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

2
3 #include<stdio.h>
4
5 int main()
6 {
7     char i;
8     printf("Enter any character:");
9     scanf("%c", &i);|
10
11     if(i>='a' && i<='z')
12     {
13         printf("The character is small
            case letter");
14     }
15     else
16     {
17         printf("The character is not
            small scale");
18     }
19
20
21     return 0;
22 }
```

Run

Enter any character:a

The character is small case letter

=== Code Execution Successful ===



```
4
5  #include <stdio.h>
6
7  int main()
8  {
9      char op;
10     float num1, num2, result=0.0f;
11
12     printf("Enter [number 1] [+ - * /] [number\n2]\n");
13
14
15     scanf("%f %c %f", &num1, &op, &num2);
16
17     switch(op)
18     {
19         case '+':
20             result = num1 + num2;
21             break;
22
23         case '-':
24             result = num1 - num2;
25             break;
26
27         case '*':
28             result = num1 * num2;
29             break;
30
31         case '/':
32             result = num1 / num2;
33             break;
34
35         default:
36             printf("Invalid operator");
37     }
38
39     printf("%.2f %c %.2f = %.2f", num1, op,\nnum2, result);
40
41     return 0;
42 }
```

Enter [number 1] [+ - \* /] [number 2]

3

+

4

3.00 + 4.00 = 7.00

=== Code Execution Successful ===

```
4
5 #include <stdio.h>
6
7 int main()
8 {
9     char op;
10    float num1, num2, result=0.0f;
11
12    printf("Enter [number 1] [+ - * /] [number\n2]\n");
13
14
15    scanf("%f %c %f", &num1, &op, &num2);
16
17    switch(op)
18    {
19        case '+':
20            result = num1 + num2;
21            break;
22
23        case '-':
24            result = num1 - num2;
25            break;
26
27        case '*':
28            result = num1 * num2;
29            break;
30
31        case '/':
32            result = num1 / num2;
33            break;
34
35        default:
36            printf("Invalid operator");
37    }
38
39    printf("%.2f %c %.2f = %.2f", num1, op,
40        num2, result);
41
42    return 0;
43 }
```

Enter [number 1] [+ - \* /] [number 2]

3

+

4

3.00 + 4.00 = 7.00

=== Code Execution Successful ===

```
1  #include <stdio.h>
2
3  int main() {
4      int n, i;
5      unsigned int fact = 1; // Use
        unsigned int for larger
        factorials
6
7      printf("Enter a positive integer:
        ");
8      scanf("%d", &n);
9
10     if (n < 0) {
11         printf("Factorial is not
            defined for negative
            numbers.\n");
12     } else {
13         for (i = 1; i <= n; i++) {
14             fact *= i; // Multiply
                fact by the current
                number
15         }
16         printf("Factorial of %d is
            %d\n", n, fact);
17     }
18     return 0;
19 }
```

Run

Enter a positive integer: -7

Factorial is not defined for negative  
numbers.

=== Code Execution Successful ===

```
1  #include <stdio.h>
2
3  int main() {
4      int base, exponent;
5      int result = 1;
6
7      printf("Enter the base number: ");
8      scanf("%d", &base);
9
10     printf("Enter the exponent (a non-negative
        integer): ");
11     scanf("%d", &exponent);
12
13     if (exponent == 0) {
14         result = 1;
15     } else {
16
17
18         for (int i = 0; i < exponent; i++) {
19             result *= base;
20         }
21     }
22
23     printf("%d raised to the power of %d is:
        %d\n", base, exponent, result);
24
25     return 0;
26 }
```

## 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 ===