

```
1 // WAP to perform arithmetic operation using goto statement.
2
3 #include <stdio.h>
4
5 int main() {
6     char operator;
7     double num1, num2, result;
8
9     printf("Enter an operator (+, -, *, /): ");
10    scanf(" %c", &operator);
11
12    printf("Enter two numbers: ");
13    scanf("%lf %lf", &num1, &num2);
14
15    switch (operator) {
16        case '+':
17            result = num1 + num2;
18            break;
19        case '-':
20            result = num1 - num2;
21            break;
22        case '*':
23            result = num1 * num2;
24            break;
25        case '/':
26            if (num2 != 0) {
27                result = num1 / num2;
28            } else {
29                printf("Error! Division by zero is not allowed.\n");
30                goto end;
31            }
32            break;
33        default:
34            printf("Error! Invalid operator.\n");
35            goto end;
36    }
37
38    printf("Result: %lf\n", result);
39
40    end:
41    return 0;
42 }
43
```

```
manish@fedora: ~/Documents/BCA/2nd Sem/C/College_Assignment/arithmetic_using_goto
● $ ./question1
Enter an operator (+, -, *, /): +
Enter two numbers: 23 32
Result: 55.000000

manish@fedora: ~/Documents/BCA/2nd Sem/C/College_Assignment/arithmetic_using_goto
● $ ./question1
Enter an operator (+, -, *, /): -
Enter two numbers: 23 32
Result: -9.000000

manish@fedora: ~/Documents/BCA/2nd Sem/C/College_Assignment/arithmetic_using_goto
● $ ./question1
Enter an operator (+, -, *, /): *
Enter two numbers: 23 32
Result: 736.000000

manish@fedora: ~/Documents/BCA/2nd Sem/C/College_Assignment/arithmetic_using_goto
● $ ./question1
Enter an operator (+, -, *, /): /
Enter two numbers: 23 32
Result: 0.718750

manish@fedora: ~/Documents/BCA/2nd Sem/C/College_Assignment/arithmetic_using_goto
● $ ./question1
Enter an operator (+, -, *, /): @
Enter two numbers: 3 2
Error! Invalid operator.
```