

Assignment - 2

Problem Statement:

Write a menu driven program in C to implement the basic arithmetic operations such as Addition, Subtraction, Multiplication, and Division.

Code:

```
1 #include <stdio.h>
2
3 //Global Variables:
4 int user_int1;
5 int user_int2;
6 int result;
7 int user_op;
8
9 void main()
10 {
11     printf("Enter first no: ");
12     scanf_s("%d", &user_int1);
13     printf("Enter second no: ");
14     scanf_s("%d", &user_int2);
15     printf("Enter operation to be performed(1 => +, 2 => -, 3 => *, 4 => /, 5 => %): ");
16     scanf_s("%d", &user_op);
17     calc_operations(user_int1, user_int2, user_op);
18     printf("The result is: %d", result);
19 }
20
21 int calc_operations(num1, num2, op)
22 {
23     switch (op) {
24     case 1:
25         result = num1 + num2;
26         break;
27     case 2:
28         result = num1 - num2;
29         break;
30     case 3:
31         result = num1 * num2;
32         break;
33     case 4:
34         result = num1 / num2;
35         break;
36
37     case 5:
38         result = num1 % num2;
39         break;
40     default:
41         //Loop back to the main input section and ask the user to enter valid operation
42         printf("Invalid operation. Please try again.\n");
43         main();
44         break;
45     };
46     return result;
47 }
```

Input & Output:

```
Microsoft Visual Studio Debug + >
Enter first no: 5
Enter second no: 5
Enter operation to be performed(1 => +, 2 => -, 3 => *, 4 => /, 5 => ): 1
The result is: 10
D:\MIT\Sem2\FOPN\Leap Year\x64\Debug\Leap Year.exe (process 14528) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .|
```

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