

## Calculator Program in C



```
1. #include <stdio.h>
2. #include <math.h>
3. #include <stdlib.h>
4.
5. int main()
6. {
7.     // declaration of local variable op;
8.     int op, n1, n2;
9.     float res;
10.    char ch;
11.    do
12.    {
13.        // displays the multiple operations of the C Calculator
14.        printf (" Select an operation to perform the calculation in C Calculator: ");
15.        printf (" \n 1 Addition \t \t 2 Subtraction \n 3 Multiplication \t 4 Division \n 5 Square \t \t 6 Square Root \n 7 Exit \n \n Please, Make a choice ");
16.
17.        scanf ("%d", &op); // accepts a numeric input to choose the operation
18.
19.
20.        // use switch statement to call an operation
21.        switch (op)
```

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```
22.     {
23.         case 1:
24.             // Add two numbers
25.             printf (" You chose: Addition");
26.             printf ("\n Enter First Number: ");
27.             scanf (" %d", &n1);
28.             printf (" Enter Second Number: ");
29.             scanf (" %d", &n2);
30.             res = n1 + n2; // Add two numbers
31.             printf (" Addition of two numbers is: %.2f", res);
32.             break; // break the function
33.
34.         case 2:
35.             // Subtract two numbers
36.             printf (" You chose: Subtraction");
37.             printf ("\n Enter First Number: ");
38.             scanf (" %d", &n1);
39.             printf (" Enter Second Number: ");
40.             scanf (" %d", &n2);
41.             res = n1 - n2; // subtract two numbers
42.             printf (" Subtraction of two numbers is: %.2f", r
es);
43.             break; // break the function
44.
45.         case 3:
46.             // Multiplication of the numbers
```

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```
47.     printf (" You chose: Multiplication");
48.     printf ("\n Enter First Number: ");
49.     scanf ("%d", &n1);
50.     printf (" Enter Second Number: ");
51.     scanf ("%d", &n2);
52.     res = n1 * n2; // multiply two numbers
53.     printf (" Multiplication of two numbers is: %.2f"
, res);
54.     break; // break the function
55.
56.     case 4:
57.         // Division of the numbers
58.         printf (" You chose: Division");
59.         printf ("\n Enter First Number: ");
60.         scanf ("%d", &n1);
61.         printf (" Enter Second Number: ");
62.         scanf ("%d", &n2);
63.         if (n2 == 0)
64.             {
65.                 printf (" \n Divisor cannot be zero. Please
enter another value ");
66.                 scanf ("%d", &n2);
67.             }
68.         res = n1 / n2; // divide two numbers
69.         printf (" Division of two numbers is: %.2f", res);
70.         break; // break the function
```

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```
71.
72.     case 5:
73.         // getting square of a number
74.         printf (" You chose: Square");
75.         printf ("\n Enter First Number: ");
76.         scanf (" %d", &n1);
77.
78.         res = n1 * n1; // get square of a number
79.         printf (" Square of %d number is: %.2f", n1, res);
80.         break; // break the function
81.
82.     case 6:
83.         // getting the square root of the number
84.         printf (" You chose: Square Root");
85.         printf ("\n Enter First Number: ");
86.         scanf (" %d", &n1);
87.
88.         res = sqrt(n1); // use sqrt() function to find the
           Square Root
89.         printf (" Square Root of %d numbers is: %.2f",
           n1, res);
90.         break; // break the function
91.
92.     case 7:
93.         printf (" You chose: Exit");
94.         exit(0);
```

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```
95.         break; // break the function
96.
97.         default:
98.             printf(" Something is wrong!! ");
99.             break;
100.    }
101.    printf (" \n \n *****
***** \n ");
102.    } while (op != 7);
103.
104.    return 0;
105. }
```

# Calculator Program in C

```
C:\Users\AMIT YADAV\Documents\calc.exe
Select an operation to perform the calculation in C Calculator:
1 Addition          2 Subtraction
3 Multiplication     4 Division
5 Square            6 Square Root
7 Exit

Please, Make a choice 1
You chose: Addition
Enter First Number: 4
Enter Second Number: 9
Addition of two numbers is: 13.00

*****
Select an operation to perform the calculation in C Calculator:
1 Addition          2 Subtraction
3 Multiplication     4 Division
5 Square            6 Square Root
7 Exit

Please, Make a choice 3
You chose: Multiplication
Enter First Number: 12
Enter Second Number: 13
Multiplication of two numbers is: 156.00

*****
Select an operation to perform the calculation in C Calculator:
1 Addition          2 Subtraction
3 Multiplication     4 Division
5 Square            6 Square Root
7 Exit

Please, Make a choice 6
You chose: Square Root
Enter First Number: 225
Square Root of 225 numbers is: 15.00

*****
Select an operation to perform the calculation in C Calculator:
1 Addition          2 Subtraction
3 Multiplication     4 Division
5 Square            6 Square Root
7 Exit
```