

```
1 #include <iostream>
2 #include <math.h>
3 using namespace std;
4 class Calculator {
5     double A, B;
6 public:
7     void get() {
8         cout << "Enter First Number: ";
9         cin >> A;
10        cout << "Enter Second Number: ";
11        cin >> B;
12    }
13    double add() {
14        return A + B;
15    }
16    double sub() {
17        return A - B;
18    }
19    double mul() {
20        return A * B;
21    }
22    double div() {
23        if (B == 0) {
24            cout << "Divison By Zero" << endl;
25            return INFINITY;
26        }
27        else {
28            return A / B;
29        }
30    }
```

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30 }
31 };
32 int main() {
33     int choice;
34     Calculator cal; // simple calculator object
35     cout << "Enter 1 Add 2 Numbers"
36         << "\nEnter 2 Subtract 2 Numbers"
37         << "\nEnter 3 Multiply 2 Numbers"
38         << "\nEnter 4 Divide 2 Numbers"
39         << "\nEnter 0 To Exit"
40         << "\n";
41     do {
42         cout << "\nEnter Choice: ";
43         cin >> choice;
44         switch (choice) {
45             case 1:
46                 cal.get();
47                 cout << "Result: " << cal.add() << endl;
48                 break;
49             case 2:
50                 cal.get();
51                 cout << "Result: " << cal.sub() << endl;
52                 break;
53             case 3:
54                 cal.get();
55                 cout << "Result: " << cal.mul() << endl;
56                 break;

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57         case 4:
58             cal.get();
59             cout << "Result: " << cal.dis() << endl;
60             break;
61     }
62 } while (choice >= 1 && choice <= 4);
63 return 0;
64 }
```

```
Enter 1 Add 2 Numbers  
Enter 2 Subtract 2 Numbers  
Enter 3 Multiply 2 Numbers  
Enter 4 Divide 2 Numbers  
Enter 0 To Exit
```

```
Enter Choice: 1  
Enter First Number: 19  
Enter Second Number: 10  
Result: 29
```

```
Enter Choice: 2  
Enter First Number: 10  
Enter Second Number: 5  
Result: 5
```

```
Enter Choice: 0
```

```
...Program finished with exit code 0  
Press ENTER to exit console. 
```