

## Assignment No.: 12

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**Batch :** A-1

**Roll No.:** 04

**Aim :** Write a C++ program to design a simple calculator

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### Input Code :

```
#include <iostream>

using namespace std;

class Calculator {
public:
    float add(float num1, float num2) {
        return num1 + num2;
    }

    float subtract(float num1, float num2) {
        return num1 - num2;
    }

    float multiply(float num1, float num2) {
        return num1 * num2;
    }

    float divide(float num1, float num2) {
        if (num2 == 0) {
            cout << "Error! Division by zero." << endl;
            return 0;
        }
        return num1 / num2;
    }
};

int main() {
    Calculator calc;
    float num1, num2;
    char op;

    cout << "Enter first number: ";
    cin >> num1;
    cout << "Enter operator (+, -, *, /): ";
    cin >> op;
    cout << "Enter second number: ";
    cin >> num2;

    switch(op) {
        case '+':
```

```
        cout << "Result: " << calc.add(num1, num2) << endl;
        break;
    case '-':
        cout << "Result: " << calc.subtract(num1, num2) << endl;
        break;
    case '*':
        cout << "Result: " << calc.multiply(num1, num2) << endl;
        break;
    case '/':
        cout << "Result: " << calc.divide(num1, num2) << endl;
        break;
    default:
        cout << "Invalid operator!" << endl;
        break;
}

return 0;
}
```

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## **Output Code :**

Enter first number: 170

Enter operator (+, -, \*, /): +

Enter second number: 230

Result: 400