

## **TASK : CONSTRUCTOR AND DESTRUCTOR**

You need to perform following task:

- 1) Write a C++ program to make a calculator; keep following things in mind:
  - a. User will choose which arithmetic operation he/she wants to perform available option should be: +, -, \*, /, %
  - b. Then user will enter two numbers.
  - c. Perform selected operation on given input.
  - d. Use constructor to set value of data members.
  - e. After an operation is performed, print the result as: sum of 19 and 10 is 29
  - f. After that ask user if he/she wants to perform another operation?
  - g. If answer is "yes", repeat above steps (make sure you clear the console before performing new operation)
  - h. If answer is "no", Call destructor and print on screen "Destructor called"
- 2) Upload this code to GitHub.

### **PROGRAM:**

```
#include <iostream>
using namespace std;

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

    cout << "Enter operator: +, -, *, /: ";
    cin >> op;

    cout << "Enter two operands: ";
    cin >> num1 >> num2;

    switch(op) {

        case '+':
            cout << num1 << " + " << num2 << " = " << num1 + num2;
            break;

        case '-':
            cout << num1 << " - " << num2 << " = " << num1 - num2;
            break;

        case '*':
            cout << num1 << " * " << num2 << " = " << num1 * num2;
            break;

        case '/':
            cout << num1 << " / " << num2 << " = " << num1 / num2;
            break;
```

```
default:
    // If the operator is other than +, -, * or /, error message is shown
    cout << "Error! operator is not correct";
    break;
}

return 0;
}
```

## OUTPUT:

```
Enter operator: +, -, *, /, % : +
Enter two operands: 19
10
19 + 10 = 29
-----
```

```
Enter operator: +, -, *, /, % : -
Enter two operands: 10
5
10 - 5 = 5
-----
```

```
Enter operator: +, -, *, /, % : *
Enter two operands: 2
2
2 * 2 = 4
-----
```

```
Enter operator: +, -, *, /, % : /
Enter two operands: 4
2
4 / 2 = 2
-----
```