```
                    Start

        float num1, num2, result
        char symbol, loopchar

        input num1, num2, symbol

                                    T
        symbol == '+'  ──────────────────→  result = num1 + num2
             │ F
                                    T
        symbol == '-'  ──────────────────→  result = num1 - num2
             │ F
                                    T
        symbol == '*'  ──────────────────→  result = num1 * num2
             │ F
                                    T
        symbol == '/'  ──────────────────→  result = num1 / num2
             │ F

        print "Error message"

        print num1, num2, operator, result

        input loopchar

         F
        loopchar != y
             │ T

                    stop
```

```cpp
#include <iostream>
using namespace std ;
int main()
{
    cout << "*************** LAB EXERCISE 2 ****************" << endl;
    float num1 , num2 , result;
    char symbol , loopChar;
    do{

        cout << "Enter number 1 :" << endl;
        cin >> num1;
        cout << "Enter number 2 :" << endl;
        cin >> num2;
        cout << "Enter your operator (+,-,/,*):" << endl;
        cin >> symbol ;

            switch (symbol)
            {
                case '+' : result = num1+num2 ;
                        break ;
                case '-' : result = num1-num2;
                        break;
                case '/' : result = num1/num2;
                        break;
                case '*' : result = num1*num2;
                        break;
                default  : cout << "Error message.";
                        break;
            }
        cout << "Number 1 : " << num1 << endl;
        cout << "Number 2 : " << num2 << endl;
        cout << "Operator : " << symbol << endl;
        cout << "Result : " << result << endl;
```

```cpp
    {
        do{
        cin >> symbol ;
            {
                case '+' : result = num1+num2 ;
                        break ;
                case '-' : result = num1-num2;
                        break;
                case '/' : result = num1/num2;
                        break;
                case '*' : result = num1*num2;
                        break;
                default  : cout << "Error message.";
                        break;
            }
        cout << "Number 1 : " << num1 << endl;
        cout << "Number 2 : " << num2 << endl;
        cout << "Operator : " << symbol << endl;
        cout << "Result : " << result << endl;
        cout << "Do you want to stop the program (enter y) :" << endl;
        cin >> loopChar;
    } while (loopChar!='y');

    cout << "Number 1 : " << num1 << endl;
    cout << "Number 2 : " << num2 << endl;
    cout << "Operator : " << symbol << endl;
    cout << "Result : " << result << endl;
    return 0;
}
```