

PROGRAM – WRITE A PROGRAM TO PERFORM BASIC OPERATIONS +, -, X, / USING TEMPLATE CLASS.

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//BASIC +, -, X, / OPERATIONS USING TEMPLATE CLASS

```
#include <iostream>

#include <conio.h>

using namespace std;

template <class T>

class operators

{

    public:

        T num1, num2;

        void sum(T a, T b)

        {

            T s=a+b;

            cout<<"\nsum = "<<s;

        }

        void sub(T a, T b)

        {

            T s=a-b;

            cout<<"\nsub = "<<s;

        }

        void multiply(T a, T b)

        {

            T s=a*b;

            cout<<"\nmultiply = "<<s;

        }

        void divide(T a, T b)

        {

            T s=a/b;

            cout<<"\ndivide = "<<s;

        }

};
```

```

int main()
{
    operators<int> x;
    operators<float> y;
    int opt, key=1;
    while (key=1)
    {
        cout << "1) SUM\n";
        cout << "2) SUBTRACT\n";
        cout << "3) MULTIPLY\n";
        cout << "4) DIVIDE\n\n";
        cout << "Option?";
        cin >> opt;
        switch (opt)
        {
            case 1: cout << "Enter Number 1 : ";
                    cin >> x.num1;
                    cout << "Enter Number 2 : ";
                    cin >> x.num2;
                    x.sum(x.num1, x.num2);
                    break;
            case 2: cout << "Enter Number 1 : ";
                    cin >> y.num1;
                    cout << "Enter Number 2 : ";
                    cin >> y.num2;
                    y.sub(y.num1, y.num2);
                    break;
            case 3: cout << "Enter Number 1 : ";
                    cin >> x.num1;
                    cout << "Enter Number 2 : ";
                    cin >> x.num2;
                    x.multiply(x.num1, x.num2);
                    break;
            case 4: cout << "Enter Number 1 : ";

```

```
        cin >> y.num1;
        cout << "Enter Number 2 : ";
        cin >> x.num2;
        y.divide(y.num1, x.num2);
        break;
    }
    cout<<"\nToo continue press 1 otherwise any key....";
    cin>>key;
}
return 0;
}
```

OUTPUT-

C:\Users\VERMA\Desktop\oop\T4.exe

- 1) SUM
- 2) SUBTRACT
- 3) MULTIPLY
- 4) DIVIDE

Option?1

Enter Number 1 : 12

Enter Number 2 : 13

sum = 25

Too continue press 1 otherwise any key....1

- 1) SUM
- 2) SUBTRACT
- 3) MULTIPLY
- 4) DIVIDE

Option?2

Enter Number 1 : 13.5

Enter Number 2 : 6

sub = 7.5

Too continue press 1 otherwise any key....1

- 1) SUM
- 2) SUBTRACT
- 3) MULTIPLY
- 4) DIVIDE

Option?3

Enter Number 1 : 12

Enter Number 2 : 2

multiply = 24

Too continue press 1 otherwise any key....1

- 1) SUM
- 2) SUBTRACT
- 3) MULTIPLY
- 4) DIVIDE

Option?4

Enter Number 1 : 12.2

Enter Number 2 : 2

divide = 6.1

Too continue press 1 otherwise any key....