

```

#include <iostream>
using namespace std;

int sum(int a, int b);
int sub(int a, int b);
int multi(int a, int b);
float divide(float a, float b);

int main() {
    int a, b, addition, subtraction, multiplication, choice;
    float x, y, division;

    cout << "Enter value of a & b for addition, subtraction, multiplication" << endl;
    cout << "a = ";
    cin >> a;
    cout << "b = ";
    cin >> b;

    cout << "Enter value of x & y for division" << endl;
    cout << "x = ";
    cin >> x;
    cout << "y = ";
    cin >> y;

    cout << "Enter operator to perform:" << endl;
    cout << "1. Addition" << endl;
    cout << "2. Subtraction" << endl;
    cout << "3. Multiplication" << endl;
    cout << "4. Division" << endl;
    cin >> choice;

    if (choice == 1) {
        addition = sum(a, b);
        cout << "Sum = " << addition << endl;
    }
    else if (choice == 2) {
        subtraction = sub(a, b);
        cout << "Subtraction = " << subtraction << endl;
    }
    else if (choice == 3) {
        multiplication = multi(a, b);
        cout << "Multiplication = " << multiplication << endl;
    }
    else if (choice == 4) {
        if (y == 0) {
            cout << "Division is not possible (division by zero)." << endl;
        }
        else {
            division = divide(x, y);
            cout << "Division = " << division << endl;
        }
    }
    else {
        cout << "Invalid choice!" << endl;
    }

    return 0;
}

```

```
int sum(int a, int b) {  
    return a + b;  
}
```

```
int sub(int a, int b) {  
    return a - b;  
}
```

```
int multi(int a, int b) {  
    return a * b;  
}
```

```
float divide(float a, float b) {  
    return a / b;  
}
```