

Write a program to addition of two complex number using friend function

```
#include <iostream>
using namespace std;
class complex {
    float x, y;

public:
    void input(float real, float img)
    {
        x = real;
        y = img;
    }
    friend complex sum(complex, complex);
    void display(complex);
};

complex sum(complex a, complex b)
{
    complex t;
    t.x = a.x + b.x;
    t.y = a.y + b.y;
    return (t);
}

void complex::display(complex c)
{
    cout << c.x << "+t" << c.y << endl;
}

int main()
{
    complex A, B, C;
    A.input(4.2, 6.3);
    B.input(3.4, 10.2);
    C = sum(A, B);
    cout << "value of A=";
    A.display(A);
    cout << "value of B=";
    B.display(B);
    cout << "sum of complex no=";
    C.display(C);
}
```

```
    return (0);  
}
```

Output

value of A=4.2+i6.3

value of B=3.4+i10.3

sum of complex no=7.6+i16.5