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***Class - B14 (CSE)***

***Question - WAP to perform addition of two complex nos. using friend function and the concept of returning object.***

#include <iostream>

using namespace std;

class A

{

int real;

int img;

public:

void input()

{

cout << "enter real part :" << endl;

cin >> real;

cout << "enter imaginary part :" << endl;

cin >> img;

}

void display()

{

if (img >= 0)

cout << real << " + i" << img;

else

cout << real << " - i" << -(img);

}

friend A add(A, A);

};

A add(A obj1, A obj2)

{

A obj3;

obj3.real = obj1.real + obj2.real;

obj3.img = obj1.img + obj2.img;

return obj3;

}

int main()

{

A obj1;

A obj2;

A obj3;

cout << "Enter 1st complex number" << endl;

obj1.input();

cout << "Enter 2nd complex number" << endl;

obj2.input();

obj3 = add(obj1, obj2);

cout << "Sum of complex numbers : " << endl;

obj3.display();

return 0;

}