Create a class Complex having two int type variable named real & img denoting real and imaginary part respectively of a complex number. Overload +, - , == operator to add, to subtract and to compare two complex numbers being denoted by the two complex type objects

SOURCE CODE:

#include<iostream>

using namespace std;

class complex{

    private:

    int real;

    int i;

    public:

    complex(){}

    complex(int real,int i)

    {

        this->real=real;

        this->i=i;

    }

    complex operator +(complex c3)

    {

        complex c;

        c.real=c3.real+real;

        c.i=c3.i+i;

        return c;

    }

    complex operator -(complex c3)

    {

        complex c;

        c.real=real-c3.real;

        c.i=i-c3.i;

        return c;

    }

    void display()

    {

        cout<<real<<"+i"<<i<<endl;

    }

    complex operator ==(complex c3)

    {

        complex c;

        c.real=c3.real==real;

        c.i=c3.i==i;

        return c;

    }

};

int main()

{

    complex c1(5,6);

    complex c2(5,5);

    complex p,p1,p3;

    p=c1+c2;

    p1=c1-c2;

    p3=c1==c2;

    p.display();

    p1.display();

    p3.display();

}

OUTPUT

