Code

public class ComplexNumber{

//for real and imaginary parts of complex numbers

double real, img;

//constructor to initialize the complex number

ComplexNumber(double r, double i){

this.real = r;

this.img = i;

}

public static ComplexNumber sum(ComplexNumber c1, ComplexNumber c2)

{

//creating a temporary complex number to hold the sum of two numbers

ComplexNumber temp = new ComplexNumber(0, 0);

temp.real = c1.real + c2.real;

temp.img = c1.img + c2.img;

//returning the output complex number

return temp;

}

public static void main(String args[]) {

ComplexNumber c1 = new ComplexNumber(5.5, 4);

ComplexNumber c2 = new ComplexNumber(1.2, 3.5);

ComplexNumber temp = sum(c1, c2);

System.out.printf("Sum is: "+ temp.real+" + "+ temp.img +"i");

}

}

Output

Sum is: 6.7 + 7.5i