**OBJECT ORIENTED PROGRAMMING LAB**

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**Roll No: 42**

**Batch: B**

**Date: 26/03/22**

**Experiment No.: 3**

**Aim**

Add Complex Numbers

**PROCEDURE**

public class ComplexNumber{

double real, img;

ComplexNumber(double r, double i){

this.real = r;

this.img = i;

}

public static ComplexNumber sum(ComplexNumber c1, ComplexNumber c2){

ComplexNumber temp = new ComplexNumber(0, 0);

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

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

return temp;

}

public static void main(String args[]) {

System.out.println("The first ComplexNumber is: 8.3+4");

ComplexNumber c1 = new ComplexNumber(8.3, 4);

System.out.println("The Second ComplexNumber is: 4.1+4.9");

ComplexNumber c2 = new ComplexNumber(4.1,4.9);

ComplexNumber temp = sum(c1, c2);

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

}

}

**Output**

