**Name: VISHNU SADASIVAN**

**Roll No:52**

**Batch:B**

**Date:05-04-22**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 3**

**Aim:**

Add complex numbers

**Program:**

class ComplexNumber

{

int real, image;

public ComplexNumber(int r, int i)

{

this.real = r;

this.image = i;

}

public void showC()

{

System.out.print(this.real + " +i" + this.image);

}

public static ComplexNumber add(ComplexNumber n1,

ComplexNumber n2)

{

ComplexNumber res = new ComplexNumber(0, 0);

res.real = n1.real + n2.real;

res.image = n1.image + n2.image;

return res;

}

public static void main(String arg[])

{

ComplexNumber c1 = new ComplexNumber(4, 5);

ComplexNumber c2 = new ComplexNumber(10, 5);

System.out.print("first Complex number: ");

c1.showC();

System.out.print("\nSecond Complex number: ");

c2.showC();

ComplexNumber res = add(c1, c2);

System.out.println("\nAddition is :");

res.showC();

}

}

**OUTPUT:**

