OBJECT ORIENTED PROGRAMMING LAB

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Roll No: 53

Batch: B

Date: 18/04/2022

Experiment No.: 3

Aim

Add complex numbers

PROCEDURE

```
import java.util.Scanner;

class Complex
{

   int real, imaginary;

   Complex()
   {
   }

   Complex(int tempReal, int tempImaginary)
   {
      real = tempReal;
      imaginary = tempImaginary;
   }
   Complex addComp(Complex C1, Complex C2)
   {
      Complex temp = new Complex();

      temp.real = C1.real + C2.real;


      temp.imaginary = C1.imaginary + C2.imaginary;
```

```
        return temp;
    }

    void printComplexNumber()
    {
        System.out.println("Complex number: "
                           + real + " + "
                           + imaginary + "i");
    }
}

// Main Class
public class ComplexNumber
{
   public static void main(String[] args)
    {

    public static void main(String[] args)
    {

        Complex C1 = new Complex(3, 2);

        C1.printComplexNumber();

        Complex C2 = new Complex(9, 5);

        C2.printComplexNumber();



        Complex C3 = new Complex();

        C3 = C3.addComp(C1, C2);
```

```
        System.out.println("Sum of ");
        C3.printComplexNumber();


    }
}
```

OUTPUT

```
D:\Javaprograms>javac ComplexNumber.java

D:\Javaprograms>java ComplexNumber
Complex number: 3 + 2i
Complex number: 9 + 5i
Sum of
Complex number: 12 + 7i

D:\Javaprograms>
```