OBJECT ORIENTED PROGRAMMING LAB

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Roll No: 55

Batch: B

Date:06/04/2022

Experiment No.: 3

Aim

Program to add complex numbers

Procedure

```
import java.util.*;
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;
    }
    Complex subtractComp(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");
        }}
public class GFG {
        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.print("Sum of ");
            C3.printComplexNumber();
        }}
```

Output Screenshot