OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 3

Name: RITTYMARIYA K R

Roll No: 28

Batch: MCA B

Date: 06/04/2022

Aim

Program to add complex numbers

Procedure

```java
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;
```
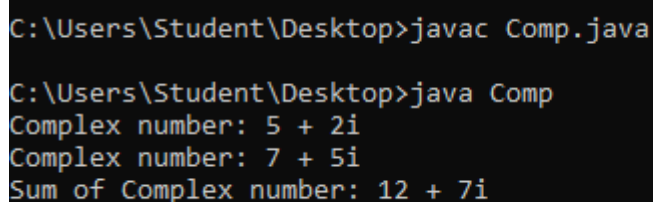
```
            return temp;

      }

      void printComplexNumber()

      {

            System.out.println("Complex number: "

                              + real + " + "

                              + imaginary + "i");

      }}
public class GFG {

      public static void main(String[] args)

      {

            Complex C1 = new Complex(5, 2);

            C1.printComplexNumber();

            Complex C2 = new Complex(7, 5);

            C2.printComplexNumber();

            Complex C3 = new Complex();

            C3 = C3.addComp(C1, C2);

            System.out.print("Sum of ");

            C3.printComplexNumber();

      }}
```

Output Screenshot

```
C:\Users\Student\Desktop>javac Comp.java

C:\Users\Student\Desktop>java Comp
Complex number: 5 + 2i
Complex number: 7 + 5i
Sum of Complex number: 12 + 7i
```