OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 3

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Aim

Program to add complex numbers
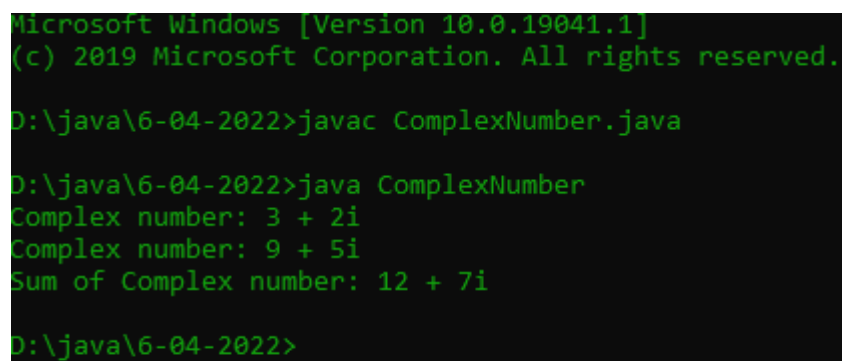
Procedure

```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;
```

```java
                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