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**Roll No:27**

**Batch:MCA - B**

**Date:06/04/2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**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(5, 3);

C1.printComplexNumber();

Complex C2 = new Complex(2, 7);

C2.printComplexNumber();

Complex C3 = new Complex();

C3 = C3.addComp(C1, C2);

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

C3.printComplexNumber();

}

}

**Output Screenshot**

