**Name: Mahima Manoj**

**Roll No: 15**

**Batch: S2 RMCA B**

**Date: 06-04-2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 3**

**Aim**

**Add complex numbers**

**Procedure**

class Complex {

double real, img;

Complex(int r, int i) {

real = r;

img = i;

}

Complex addComp(Complex C1, Complex C2) {

Complex sum = new Complex(0, 0);

sum.real = C1.real + C2.real;

sum.img = C1.img + C2.img;

return sum;

}

}

class ComplexMain{

public static void main(String[] args) {

// create 3 complex numbers using objects of Complex class

Complex C1 = new Complex(2, 3);

Complex C2 = new Complex(5, 6);

Complex C3 = new Complex(0, 0);

// print two complex numbers

System.out.println("Complex number 1 : " + C1.real + " + " + C1.img + "i");

System.out.println("Complex number 2 : " + C2.real + " + " + C2.img + "i");

// add 2 complex numbers and display it

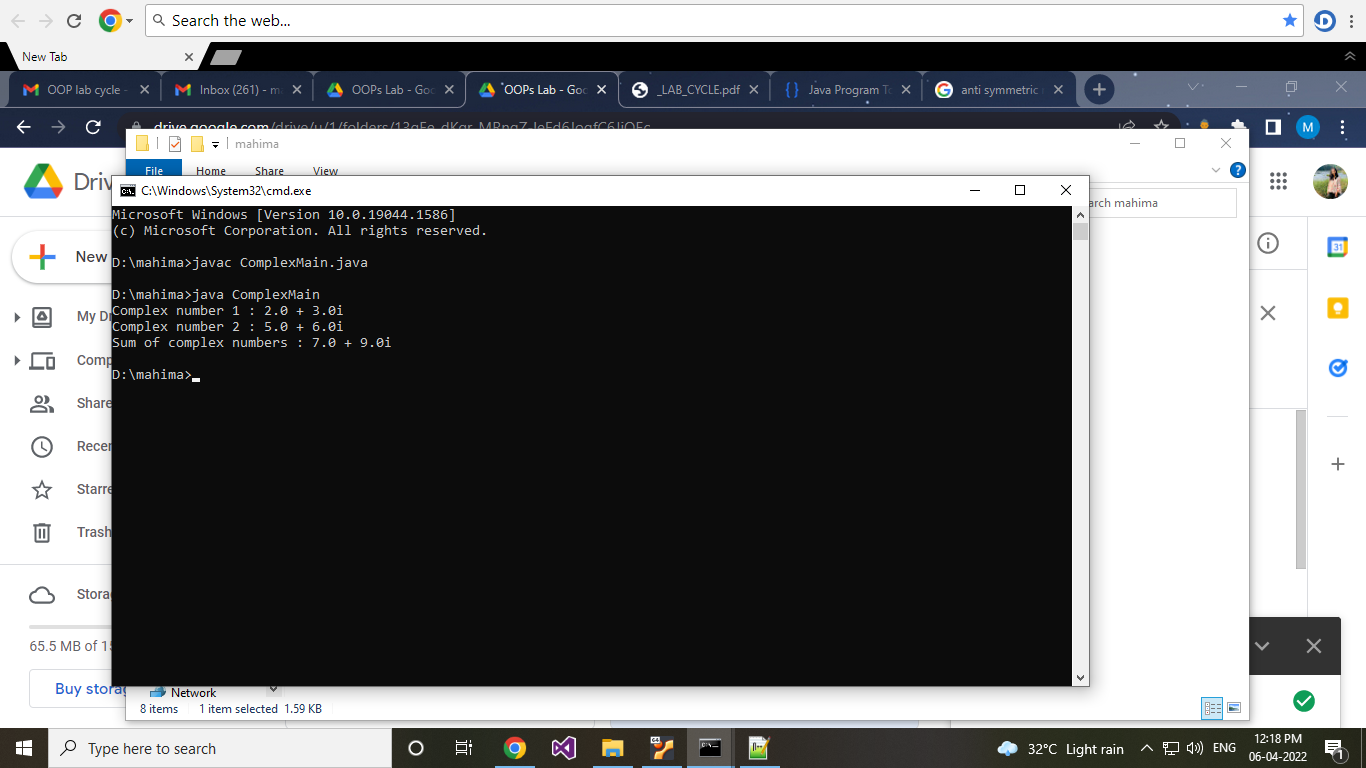
C3 = C3.addComp(C1, C2);

System.out.println("Sum of complex numbers : " + C3.real + " + " + C3.img + "i");

}

}

**Output Screenshot**

****