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**Roll No:6**

**Batch:B**

**Date:06-04-22**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 2**

**Aim**

Add complex numbers

**PROCEDURE**

import java.util.\*;

class ComplexNumbers{

    int real, imaginary;

    ComplexNumbers(){  }

    ComplexNumbers(int real, int imaginary){

        this.real= real;

        this.imaginary= imaginary;

    }

    void complexAdd(ComplexNumbers compNum){

        int real\_sum, imaginary\_sum;

        real\_sum= this.real+compNum.real;

        imaginary\_sum= this.imaginary+compNum.imaginary;

        System.out.println("The sum of the mentioned complex numbers is : "+real\_sum+" + "+imaginary\_sum+"i");

    }

    void display(){

        System.out.println("The entered complex number is : "+real+" + "+imaginary+"i");

        System.out.println("\n");

    }

    public static void main(String[] args){

        int real\_num, imaginary\_num;

        Scanner sc= new Scanner(System.in);

        System.out.print("Enter the real value of the 1st complex number : ");

        real\_num= sc.nextInt();

        System.out.print("Enter the imaginary value of the 1st complex number : ");

        imaginary\_num= sc.nextInt();

        ComplexNumbers com1= new ComplexNumbers(real\_num, imaginary\_num);

        com1.display();

        System.out.print("Enter the real value of the 2nd complex number : ");

        real\_num= sc.nextInt();

        System.out.print("Enter the imaginary value of the 2nd complex number : ");

        imaginary\_num= sc.nextInt();

        ComplexNumbers com2= new ComplexNumbers(real\_num, imaginary\_num);

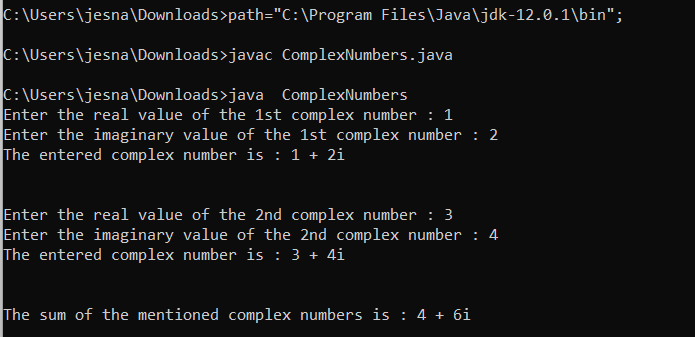
        com2.display();

        com1.complexAdd(com2);

    }

}

**OUTPUT**

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