OBJECT ORIENTED PROGRAMMING LAB

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Batch:MCA B

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Experiment:.3

Aim

Add complex numbers.

Procedure

```java
public class ComplexNumber{

    double real, img;


    ComplexNumber(double r, double i){
        this.real = r;
        this.img = i;
    }


    public static ComplexNumber sum(ComplexNumber c1, ComplexNumber c2)
    {

        ComplexNumber temp = new ComplexNumber(0, 0);


        temp.real = c1.real + c2.real;
        temp.img = c1.img + c2.img;


        return temp;
    }
```
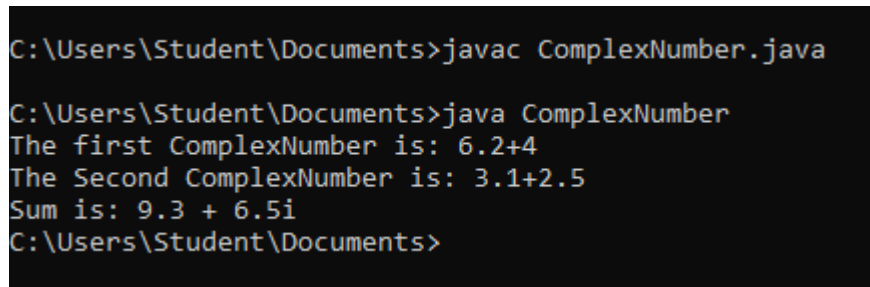
```
    public static void main(String args[]) {

        System.out.println("The first ComplexNumber is: 6.2+4");

        ComplexNumber c1 = new ComplexNumber(6.2, 4);

        System.out.println("The Second ComplexNumber is: 3.1+2.5");

        ComplexNumber c2 = new ComplexNumber(3.1,2.5);

        ComplexNumber temp = sum(c1, c2);

        System.out.printf("Sum is: "+ temp.real+" + "+ temp.img +"i");

        }

}
```

Output Screenshot

```
C:\Users\Student\Documents>javac ComplexNumber.java

C:\Users\Student\Documents>java ComplexNumber
The first ComplexNumber is: 6.2+4
The Second ComplexNumber is: 3.1+2.5
Sum is: 9.3 + 6.5i
C:\Users\Student\Documents>
```