

OOPs in JAVA**Experiment No.: 9****Aim**

Complex Number

Sourcecode & Output Screenshot

```
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: 8.3+4");
        ComplexNumber c1 = new ComplexNumber(8.3, 4);
        System.out.println("The Second ComplexNumber is: 4.1+4.9");
        ComplexNumber c2 = new ComplexNumber(4.1,4.9);
        ComplexNumber temp = sum(c1, c2);
        System.out.printf("Sum is: "+ temp.real+" + "+ temp.img +"i");
    }
}
```

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```
D:\java>javac ComplexNumber.java  
D:\java>java ComplexNumber  
The first ComplexNumber is: 8.3+4  
The Second ComplexNumber is: 4.1+4.9  
Sum is: 12.4 + 8.9i  
D:\java>
```