

OBJECT ORIENTED PROGRAMMING LAB**Experiment No.: 3****Aim**

Add complex numbers

Procedure

```
class ComplexNumber {  
  
    int real, image;  
  
    public ComplexNumber(int r, int i)  
    {  
        this.real = r;  
        this.image = i;  
    }  
  
    public void showC()  
    {  
        System.out.print(this.real + " +i" + this.image);  
    }  
  
    public static ComplexNumber add(ComplexNumber n1,  
    ComplexNumber n2)  
    {  
  
        ComplexNumber res = new ComplexNumber(0, 0);  
  
        res.real = n1.real + n2.real;  
  
        res.image = n1.image + n2.image;  
  
        return res;  
    }  
  
    public static void main(String arg[])
```

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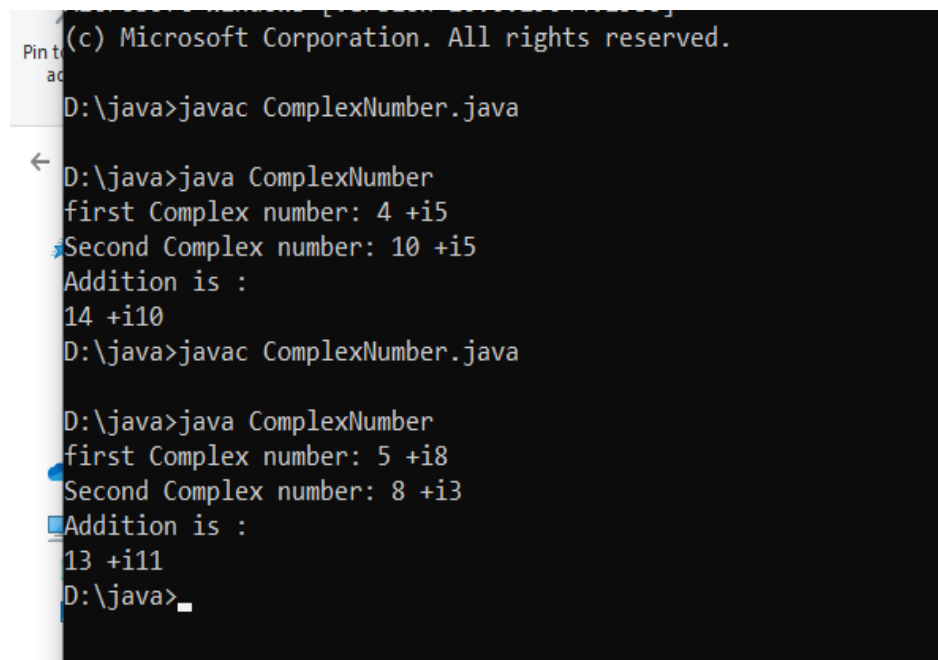
Roll No: 18

Batch: B

Date: 6/04/22

```
{  
  
    ComplexNumber c1 = new ComplexNumber(4, 5);  
    ComplexNumber c2 = new ComplexNumber(10, 5);  
  
    System.out.print("first Complex number: ");  
    c1.showC();  
  
    System.out.print("\nSecond Complex number: ");  
    c2.showC();  
  
    ComplexNumber res = add(c1, c2);  
  
    System.out.println("\nAddition is :");  
    res.showC();  
}  
}
```

Output Screenshot



```
(c) Microsoft Corporation. All rights reserved.  
D:\java>javac ComplexNumber.java  
  
D:\java>java ComplexNumber  
first Complex number: 4 +i5  
Second Complex number: 10 +i5  
Addition is :  
14 +i10  
D:\java>javac ComplexNumber.java  
  
D:\java>java ComplexNumber  
first Complex number: 5 +i8  
Second Complex number: 8 +i3  
Addition is :  
13 +i11  
D:\java>
```