

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

Add complex numbers

**Program:**

```
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;
```

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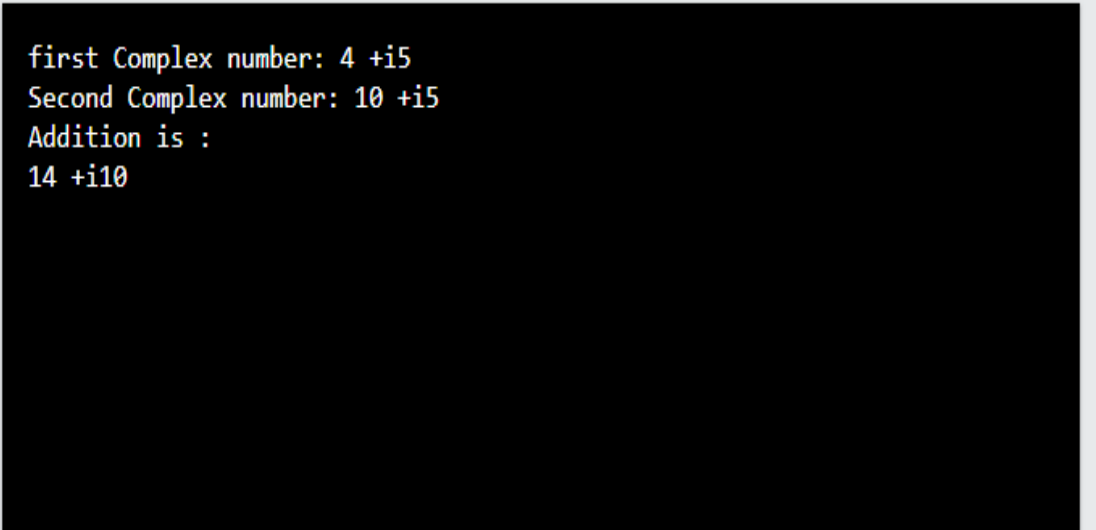
```
        res.image = n1.image + n2.image;

        return res;
    }

    public static void main(String arg[])
    {
        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:**A screenshot of a terminal window with a black background and white text. The output shows the results of a Java program for complex number addition. The text is as follows:

```
first Complex number: 4 +i5
Second Complex number: 10 +i5
Addition is :
14 +i10
```