OBJECT ORIENTED PROGRAMMING LAB

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Batch: B

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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[])
```

```
{
                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