OBJECT ORIENTED PROGRAMMING LAB

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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;
```

```
        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:

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