OBJECT ORIENTED PROGRAMMING LAB

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Experiment No : 3

Aim

The program to add complex numbers.

Procedure

```
class Complex {
   double real, img;
   Complex(int r, int i) {
      real = r;
      img = i;
   }


   Complex addComp(Complex C1, Complex C2) {
      Complex sum = new Complex(0, 0);
      sum.real = C1.real + C2.real;
      sum.img = C1.img + C2.img;
      return sum;
   }
}

class ComplexMain {
   public static void main(String[] args) {

      Complex C1 = new Complex(2, 3);
      Complex C2 = new Complex(5, 6);
      Complex C3 = new Complex(0, 0);


      System.out.println("Complex number 1 : " + C1.real + " + " + C1.img + "i");
      System.out.println("Complex number 2 : " + C2.real + " + " + C2.img + "i");


      C3 = C3.addComp(C1, C2);
      System.out.println("Sum of complex numbers : " + C3.real + " + " + C3.img + "i");
   }
}
```

Output Screenshot