

PROGRAM :

```
public class ComplexNumber
```

```
{
```

```
    double real, img;
```

```
    ComplexNumber(double r, double i)
```

```
{
```

```
    this.real = r;
```

```
    this.img = i;
```

```
}
```

```
    public static ComplexNumber
```

```
sum(ComplexNumber c1,
```

```
ComplexNumber c2)
```

```
{
```

```
    ComplexNumber temp = new
```

```
ComplexNumber(0, 0);
```

```
temp.real = c1.real + c2.real;  
temp.img = c1.img + c2.img;
```

```
return temp;
```

```
}
```

```
public static void main(String args[]) {
```

```
    ComplexNumber c1 = new
```

```
ComplexNumber(8.5, 4);
```

```
    ComplexNumber c2 = new
```

```
ComplexNumber(3.5, 6.5);
```

```
    ComplexNumber temp = sum(c1, c2);
```

```
    System.out.printf("Sum is: "+  
temp.real+" + "+ temp.img +"i");
```

```
}
```

```
}
```

OUTPUT :

Sum is: $12.0 + 10.5i$