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1 //q-3-q-1
2 class ComplexNum
3 {
4     float real;
5     float img;
6     ComplexNum(float a, float b)
7     {
8         real =a ;
9         img = b;
10    }
11    void showComplexNum()
12    {
13        System.out.println("Complex number is: (" + real + " + "+img + "j)");
14    }
15    void addition(float r1,float img1,float r2,float img2)
16    {
17        float r3 = r1 + r2;
18        float img3 = img1 + img2;
19        System.out.println("Sum is: (" + r3 + " + "+img3 + "j)");
20    }
21    void addition( ComplexNum c1,ComplexNum c2)
22    {
23        float r3 = c1.real + c2.real;
24        float img3 = c1.img + c2.img;
25        System.out.println("Sum is: (" + r3 + " + "+img3 + "j)");
26
27
28    }
29    void addition( ComplexNum c)
30    {
31        float r3 = real + c.real;
32        float img3 = img + c.img;
33        System.out.println("Sum is: (" + r3 + " + "+img3 + "j)");
34
35
36    }
37
38 }
39 class question3
40 {
41     public static void main(String arg[])
42     {
43         ComplexNum num1 = new ComplexNum(5.2f,8f);
44         ComplexNum num2 = new ComplexNum(13.754f,38f);
45         num1.showComplexNum();
46         num2.showComplexNum();
47         num1.addition(45.2f,3f,12f,32f);
48         num1.addition(num1,num2);
49         num1.addition(num2);
50    }
```

```
51 }  
52  
53  
54 // PS C:\Users\Dell\Desktop\JAVA\Assignments\Assignment-2> java question3  
55 // Complex number is: (5.2 + 8.0j)  
56 // Complex number is: (13.754 + 38.0j)  
57 // Sum is: (57.2 + 35.0j)  
58 // Sum is: (18.953999 + 46.0j)  
59 // Sum is: (18.953999 + 46.0j)
```