```
1 / * *
 4 package shapesTestsrc;
 6 import static org.junit.jupiter.api.Assertions.*;
12
13 / * *
14 * @author patrickFrendo
15 *
16 */
17 class shapeTest
19
      AllShapes shapes = new AllShapes();
20
      Rectangle r1;
21
      Rectangle r2
22
      Rectangle r3
23
     RtAngleTriangle t1;
24
     Circle c1;
25
     /**
26
27
      * @throws java.lang.Exception
      * /
28
29
      @BeforeEach
30
      void setUp() throws Exception
31
         r1 = new Rectangle ("red", 2,3);
32
33
34
          r2 = new Rectangle ("red", 2,3);
35
36
37
          r3 = new Rectangle ("green", 2,3);
38
39
40
         t1 = new RtAngleTriangle ("red", 2,4);
41
42
          c1 = new Circle ("green", 4);
43
44
45
46
47
     /**
      * @throws java.lang.Exception
48
49
50
      @AfterEach
51
      void tearDown() throws Exception
52
         r1 = null;
53
          r2 = null;
54
          r3 = null
          t1 = null;
55
          c1 = null;
56
57
58
59
     @Test
60
     void testSameShapeCheck()
61
62
63
64
65
66
67
      @Test
```

```
void testSameShapeDifferentColor
69
70
71
72
73
74
     @Test
75
    void testSetBaseValue
76
        // t1.setBase(2.22); <-- only accepts int??</pre>
77
         assertEquals(t1.getBase(), 4);
78
79
80
     @Test
     void testShapeArrayList
81
82
        assertEquals(c1.getColour(), shapes.getShape(4).getColour());
83
         assertEquals(c1.getArea(), shapes.getShape(4).getArea());
84
85
86
87
```