

```

1 package proj5;
2 import org.junit.After;
3 import org.junit.Before;
4 import org.junit.Rule;
5 import org.junit.Test;
6 import org.junit.rules.Timeout;
7 import static org.junit.Assert.*;
8
9 /**
10  * test the functionality of Counter.java and
   WordCounter.java
11  * author: Son Nguyen (Kyrie)
12  * version: 6/3/2020
13  */
14 public class WordCounterTest {
15
16     @Rule // a test will fail if it takes longer than
        1/10 of a second to run
17     public Timeout timeout = Timeout.millis(100);
18
19     private WordCounter wc;
20
21     @Before
22     public void setUp() throws Exception {
23         wc = new WordCounter();
24     }
25
26     @After
27     public void tearDown() throws Exception {
28         wc = null;
29     }
30
31     @Test // string representation of word counter
32     public void testToString(){
33         assertEquals("", wc.toString());
34         wc.findFrequencies("src/nonsense.txt");
35         String expected = "have: 1\n" +
36             "hi: 6\n" +
37             "if: 1\n" +
38             "line: 1\n" +
39             "probably: 1\n" +
40             "reading: 1\n" +
41             "seconds: 1\n" +
42             "spend: 1\n" +

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43         "this: 1\n" +
44         "three: 1\n" +
45         "time: 1\n" +
46         "wasted: 1\n" +
47         "you: 2\n";
48         assertEquals(expected, wc.toString());
49     }
50
51     @Test // get frequency of a word
52     public void testGetFrequency() {
53         wc.findFrequencies("src/nonsense.txt");
54         assertEquals(6, wc.getFrequency("hi"));
55         assertEquals(2, wc.getFrequency("you"));
56         assertEquals(1, wc.getFrequency("three"));
57         assertEquals(0, wc.getFrequency("iPhone"));
58     }
59 }
60
```