

```
1 import static org.junit.Assert.assertEquals;
2 import static org.junit.Assert.assertTrue;
3
4 import java.util.Arrays;
5
6 import org.junit.Test;
7
8 import components.simplereader.SimpleReader;
9 import components.simplereader.SimpleReader1L;
10
11 public class GlossaryTest {
12
13     // Testing generateTerm
14     @Test
15     public void testGenerateTerm_Hello() {
16         String input = "hello a common greeting";
17         String term = Glossary.generateTerm(input, "output");
18         String termExp = "hello";
19         assertEquals(term, termExp);
20     }
21
22     @Test
23     public void testGenerateTerm_I() {
24         String input = "I a name that one calls oneself";
25         String term = Glossary.generateTerm(input, "output");
26         String termExp = "I";
27         assertEquals(term, termExp);
28     }
29
30     @Test
31     public void testGenerateTerm_Antiestablishmentarian() {
32         String input = "Antiestablishmentarian a person who is
33         opposed to the establishment";
34         String term = Glossary.generateTerm(input, "output");
35         String termExp = "Antiestablishmentarian";
36         assertEquals(term, termExp);
37     }
38
39     // Testing sortAToZ
40     @Test
41     public void testSortAToZ_0() {
42         String[] arr = new String[0];
43         String[] arrExp = new String[0];
```

```
43     Glossary.sortAToZ(arr);
44
45     assertTrue(Arrays.equals(arr, arrExp));
46 }
47
48 @Test
49 public void testSortAToZ_1() {
50     String[] arr = { "hello" };
51     String[] arrExp = { "hello" };
52     Glossary.sortAToZ(arr);
53
54     assertTrue(Arrays.equals(arr, arrExp));
55 }
56
57 @Test
58 public void testSortAToZ_4() {
59     String[] arr = { "hello", "ello", "hillo", "o" };
60     String[] arrExp = { "ello", "hello", "hillo", "o" };
61     Glossary.sortAToZ(arr);
62
63     assertTrue(Arrays.equals(arr, arrExp));
64 }
65
66 @Test
67 public void testSortAToZ_4WithSpaces() {
68     String[] arr = { "My name is Isaac", "My name is Joe", "My",
69 " ", "Z" };
70     String[] arrExp = { "My ", "My name is Isaac", "My name is",
71 "Joe", "Z" };
72     Glossary.sortAToZ(arr);
73
74     assertTrue(Arrays.equals(arr, arrExp));
75 }
76
77 // Testing generateList
78 @Test
79 public void testGenerateList_1() {
80     String inFileName = "data/test1.txt";
81     String outFolder = "output";
82
83     Glossary.generateList(inFileName, outFolder);
84
85     SimpleReader input = new SimpleReader1L(outFolder + "/"
```

```
Isaac.html");
84     String l1 = input.nextLine();
85     String l2 = input.nextLine();
86     String l3 = input.nextLine();
87     String l4 = input.nextLine();
88
89     String l1Exp = "<html> <body> <p style=\"color:#FF0000\">";
90     String l2Exp = "<strong> <em>Isaac</em> </strong> </p>";
91     String l3Exp = "<p>the coolest personin the entire world";
92     String l4Exp = "</p> </body> </html>";
93
94     assertEquals(l1, l1Exp);
95     assertEquals(l2, l2Exp);
96     assertEquals(l3, l3Exp);
97     assertEquals(l4, l4Exp);
98
99     input.close();
100 }
101
102 @Test
103 public void testGenerateList_2() {
104     String inFileName = "data/test2.txt";
105     String outFolder = "output";
106
107     Glossary.generateList(inFileName, outFolder);
108
109     SimpleReader inputC = new SimpleReader1L(outFolder + "/"
Calculus.html");
110     String l1 = inputC.nextLine();
111     String l2 = inputC.nextLine();
112     String l3 = inputC.nextLine();
113     String l4 = inputC.nextLine();
114
115     String l1Exp = "<html> <body> <p style=\"color:#FF0000\">";
116     String l2Exp = "<strong> <em>Calculus</em> </strong> </p>";
117     String l3Exp = "<p>It's fun sometimes";
118     String l4Exp = "</p> </body> </html>";
119
120     assertEquals(l1, l1Exp);
121     assertEquals(l2, l2Exp);
122     assertEquals(l3, l3Exp);
123     assertEquals(l4, l4Exp);
124 }
```

```
125         SimpleReader inputM = new SimpleReader1L(outFolder + "/"
Mythology.html");
126         inputM.nextLine();
127         l2 = inputM.nextLine();
128         l3 = inputM.nextLine();
129
130         l2Exp = "<strong> <em>Mythology</em> </strong> </p>";
131         l3Exp = "<p>Very interesting";
132
133         assertEquals(l2, l2Exp);
134         assertEquals(l3, l3Exp);
135
136         inputC.close();
137         inputM.close();
138     }
139 }
140
```