

## src/Lab8.java

```
1  /*
2  Name: Hunter Poole
3  Date: 3/26/25
4  Lab #: 8
5  Source Code: Lab8.java
6  Action: Asks for a sentence, then passes that sentence to a function.
7           That function will count spaces, lower case chars, and vowel chars.
8           Function will then print counts.
9  */
10
11 import java.util.Scanner;
12
13 public class Lab8
14 {
15
16     /*
17     Action: Takes a string, counts spaces, lower case chars and vowel chars. Prints
18     counts.
19     Parameters: String X
20     Returns: void
21     Precondition: A not-empty string needs to be provided.
22     */
23
24     static void StringPartsCalculator(String X)
25     {
26         int SpaceCount = 0, LowerCaseCount = 0, VowelCount = 0;
27         String X_LowerCase;
28
29         X_LowerCase = X.toLowerCase();
30
31         for (int i = 0; i < X.length(); i++)
32         {
33             if (Character.isWhitespace(X.charAt(i)))
34             {
35                 SpaceCount++;
36             }
37
38             if (Character.isLowerCase(X.charAt(i)))
39             {
40                 LowerCaseCount++;
41             }
42
43             if (X_LowerCase.charAt(i) == 97 || X_LowerCase.charAt(i) == 101
44                 || X_LowerCase.charAt(i) == 105 || X_LowerCase.charAt(i) == 111
45                 || X_LowerCase.charAt(i) == 117)
46             {
47                 VowelCount++;
48             }
49         }
50     }
51 }
```

```
47         }
48     }
49
50     System.out.printf("%n%s %d %n%s %d %n%s %d%n", "Vowels =", VowelCount,
51         "Spaces =", SpaceCount, "Lower case =",
LowerCaseCount);
52     }
53
54     public static void main(String[] args)
55     {
56         String Sentence;
57
58         Scanner Input = new Scanner(System.in);
59         System.out.println("Please enter a sentence");
60         Sentence = Input.nextLine();
61
62         StringPartsCalculator(Sentence);
63     }
64 }
65
66 /*
67 Please enter a sentence
68 This is a lovely Day.
69
70 Vowels = 6
71 Spaces = 4
72 Lower case = 14
73
74 Please enter a sentence
75 This is my TRULY unique test tExt! !!
76
77 Vowels = 9
78 Spaces = 7
79 Lower case = 20
80 */
```