src/Lab8.java

```
1 /*
   Name: Hunter Poole
   Date: 3/17/25
   Lab #: 8
 5
   Source Code: Lab8.java
   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
   counts.
   Parameters: String X
18
19
   Returns: void
20
   Precondition: A not-empty string needs to be provided.
21
   */
22
23
       static void StringPartsCalculator(String X)
24
25
            int SpaceCount = 0, LowerCaseCount = 0, VowelCount = 0;
26
            String X_LowerCase;
27
28
            X_LowerCase = X.toLowerCase();
29
30
            for (int i = 0; i < X.length(); i++)</pre>
31
            {
32
                if (Character.isWhitespace(X.charAt(i)))
                {
33
34
                    SpaceCount++;
35
                }
36
37
                if (Character.isLowerCase(X.charAt(i)))
38
                {
39
                    LowerCaseCount++;
                }
40
41
                if (X_LowerCase.charAt(i) == 97 || X_LowerCase.charAt(i) == 101
42
43
                    || X_LowerCase.charAt(i) == 105 || X_LowerCase.charAt(i) == 111
                    || X_LowerCase.charAt(i) == 117)
44
45
                {
46
                    VowelCount++;
```

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```
47
               }
           }
48
49
           System.out.printf("%n%s %d %n%s %d%n","Vowels =", VowelCount,
50
                                "Spaces =", SpaceCount, "Lower case =",
51
   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");
           Sentence = Input.nextLine();
60
61
62
           StringPartsCalculator(Sentence);
       }
63
64
   }
65
66
   /*
67
   Please enter a sentence
   This is a lovely Day.
68
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
    */
```

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