#### Lab #8

# 1. Write a description of the problem you're working on

a. I decided to work on the word counter problem, in order to create a text box, that when populated with text, counts the number of words in the text

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#### 2. What are the variables

a. var count, is a reference to the id of the count var input, is a reference to the id of the textarea var text, which keeps track of the user's input, and var wordCount, which keeps track of the words as they increment

### 3. What are the inputs and outputs

- a. The input is the text being input by the user into the text box
- b. The output is wordCount, which represents the number of words in the text box. The wordCount is printed to the screen being displayed in the web browser (see example image below)

# 4. Think about what the solution will look like.

a. Did you use any data structures?

The data structure I used was a for loop.

# b. What is the logic for solving the problem?

The for loop keeps track of the number of ' ' (empty space characters) in the text box and associates that number with the number of words in the text document.

# c. Did you use any formulas?

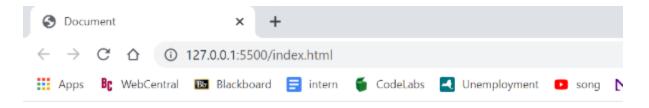
I simply incremented the value of wordCount every time the program detected the user inputting a space key in the text box between words.

5a. This is index.html file, which specifies to pull from index.js (line 14)

5b. This is index.js file, it contains JavaScript code for the word counter

```
JS index.js
JS index.js > 😭 wordCounter
              //the counter will update as the user enters text
              //so we grab a ref to the id of both the textarea and the count
              var count = document.getElementById('count');
              var input = document.getElementById('input');
              //keyup is fired when user's hands have left a previously pressed key
              input.addEventListener('keyup', function(e){
                  wordCounter(e.target.value);
              });
              //wordCounter function takes in one argument text
              //text is the user's input
              function wordCounter(text) {
                  var text = input.value;
                  var wordCount = 0;  //start at 0 words before we type anything
                  //increments wordcount every time new word is typed
                  //new word is recognized by the space separating words
                  for (var i = 0; i<= text.length; i++) {</pre>
                      if (text.charAt(i) == ' '){
                      wordCount++;
                       }
24
                  count.innerText = wordCount;
```

5c. This is what the web browser screen looks like when running my JavaScript code



# Lab 8 by Ann Liberman for CISC 3140

# **Word Count: 16**

Hello this increments	is an example word count by	for 1.	Lab	8.	Every	word	Ι	write
								,