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CISC 3140
Lab 8

1. Pick a problem to work on (some examples shown below). Write a description of the problem you're working on, such as what are the variables, what are the inputs and outputs, etc.
2. Think about what the solution will look like. Explain this solution. Did you use any data structures? What is the logic for solving the problem? Did you use any formulas? Pseudocode is fine.
3. Complete the solution using vanilla JS.
4. The description of the problem and solution
 - The source code

Problem: Word counter - counts the number of words typed in a text box

-Variables include counter to track the word count

-input are the words being typed in by the user

-output is a number indicating how many words were entered

Solution: use an if and for loop to increment counter

Source code:

Js:

```
function display() {  
  var count=document.getElementById('count');  
  var in=document.getElementById('input');  
  
  in.addEventListener('keyup', function(e) {  
    wordCounter(e.target.value);  
  });  
  
  function wordCounter(text){  
    var txt = input.value;  
    var wordCount=0;  
    for(var i=0; i<=text.length; i++){  
      if(text.charAt(i)==' '){  
        wordcount++;  
      }  
    }  
    count.innerText=wordCount;  
  }  
}
```

Html:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
  <body>
```

```
    <h1>
```

```
      Word count: <span id="count">0</span>
```

```
    </h1>
```

```
    <textarea id="in" rows="10"></textarea>
```

```
    <script>
```

```
      src="index.js"
```

```
    </script>
```

```
  </body>
```

```
</html>
```