

Lab 7: Functions

ART-101-01

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## Summary of our efforts:

For this Lab 7 assignment, we created a new file for Lab 7 and created a function that accepted a user input from a pop-up window. When a user types their name in, the function is supposed to rearrange the letters randomly. Unfortunately, we were unable to figure out how to get the input to show up in its rearranged format. We will be resubmitting this assignment once we figure it out.

## Links to our labs:

<https://she100.github.io/art101/lab7/index.html>

<https://relliott-47.github.io/art101/>

## Screenshot for Task 1: Create an index.html for Lab 7

Stephanie:

```
<html>
<body>
  <main id="content">
    <section>
      <h1 align="center">Lab 7 - Functions</h1>

      <div class="minor-section">
        <h2>Challenge</h2>
        <p>Working with your partner, write functions that take user input and manipulate a string.</p>
      </div>

      <div class="minor-section">
        <h2>Problems</h2>
        <p>I had a problem getting my HTML website to print the rearranged user input. Instead, it just prints the original user input within the sentence.</p>
      </div>

      <div class="minor-section">
        <h2>Reflection</h2>
        <p>This assignment was harder than the last one. I used W3 Schools a lot for this assignment though it didn't really help. At least I was able to have the user input show up!</p>
      </div>

      <div class="minor-section">
        <h2>Results</h2>
        <p>Here is the program execution!</p>
        <div id="output">

          <!--This is supposed to print everything from my lab 7 JS file.-->
          <h3>Script Output</h3>

          <script src="js/lab7.js"></script>
          </div>

          <!--This prints the user input.-->
          <p id="demo"></p>
          <script>
            document.getElementById("demo").innerHTML = "Here's your new name, I hope you like it: " + userName(), ("<br>");
          </script>

          <!--Testing in Progress-->
          <!--For splitting the string into an array-->
          <div>
            <script>
              let text = "ignore this?";
              const userName = text.split("");

              document.getElementById("demo").innerHTML = nameSorted;
            </script>

            <!--Sort the Array-->
            <script>
              let nameSorted = (userName);
              shuffle(nameSorted);
              console.log(nameSorted);
            </script>
          </div>
        </div>
      </div>
    </section>
  </main>
</body>
</html>
```



*My source code and published lab7 page.*

Riley:

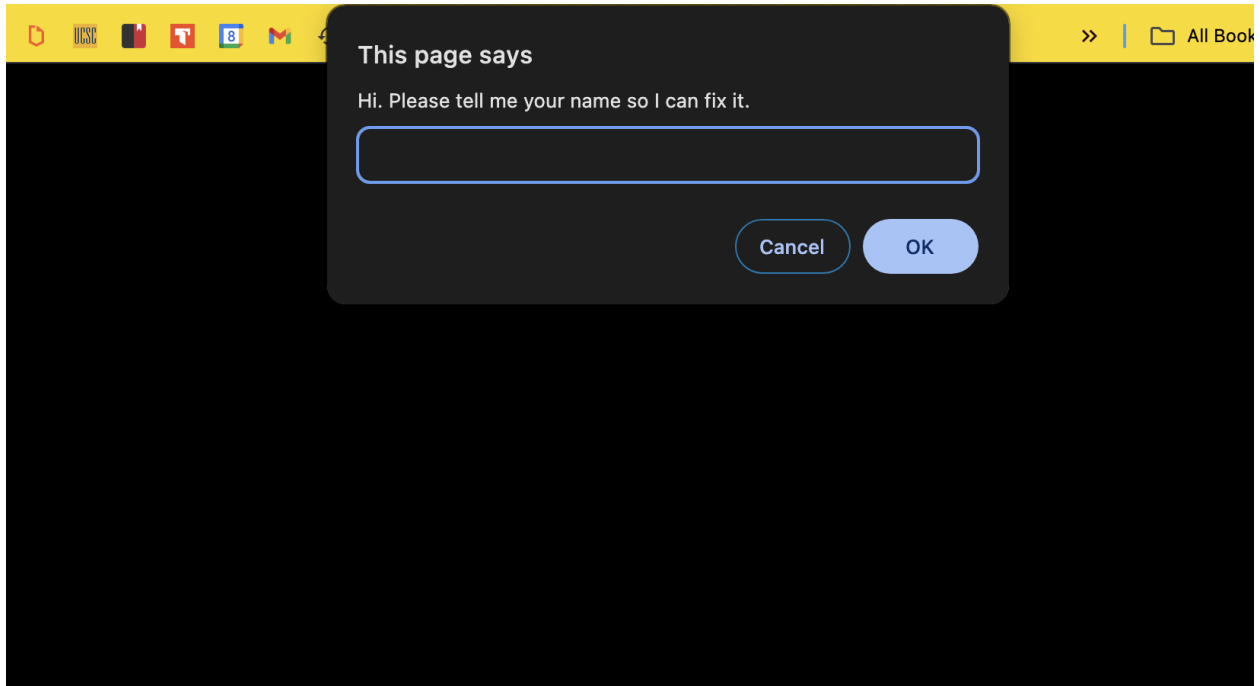
```
<body>
  <div id="content">
    <h1>Lab 7: Functions</h1>
    <h2>Challenge</h2>
    <p>Working with your partner, write functions that take user input.</p>
    <h2>Challenges</h2>
    still can't get script outputs to print I suspect there is some kind of glitch happening, will check in at section about it
    <p></p>
    <h2>Results</h2>
    <p></p>
    <div>
      <h2> Script Output</h2>

      <script src="js/lab7.js"></script>

      <!--this prints the user input.-->
      <p id="demo"></p>

      <script>
        document.getElementById("demo").innerHTML = "Here's your new name, I hope you like it: " + userName(), ("<br>");
      </script>
    </div>
  </div>
</body>
</html>
```

My index.html code



i managed to get to this but this is the only bit of the assignment that worked

## Screenshot for Task 2: Create a JavaScript file

Stephanie:

lab7 > js > JS lab.js > sortYourName

```
1  // index.js - Lab 7
2  // Write functions that take user input and manipulate a string.
3  // Author: Stephanie He
4  // Date: October 28, 2024
5
6  // New Function that receives input from the user, sorts the letters,
7  // and prints a new name.
8  function sortYourName(){
9      // Window takes in user input (done)
10     var userName = window.prompt("Hello! Please give me your name so I can change it :)");
11     console.log("userName =", userName);
12
13     // Prints onto website
14     if (userName !=null){
15         document.getElementById("demo").innerHTML =
16         "Here's your new name, I hope you like it: " + userName;
17     }
18
19     // Split the string to an array (done)
20     var nameArray = userName.split('');
21     console.log("nameArray =", nameArray);
22
23     // Sort the array
24     var nameArraySort = nameArray.sort();
25     console.log("nameArraySort =", nameArraySort);
26
27     // Join array back to a string
28     var nameSorted = nameArraySort.join('');
29     console.log("nameSorted =", nameSorted);
30
31     // Give the new name
32     return nameSorted;
33 }
34
35
36
37 // Output in script output section
38 document.writeln("Here's your new name, I hope you like it: ",
39     sortYourName(), "</br>");
40
41
42 if (userName !=null){
43     document.getElementById("demo").innerHTML = "Here's your new name, I hope you like it: " + sortYourName();
44 }
45
46
47
48
49
```

My JS file in VS Code.

Riley:

```

//sortUserName - a function that takes user input and sorts the letters
//of their name
function sortUserName() {
    var userName = window.prompt("Hi. Please tell me your name so I can fix it.");
    console.log("userName =", userName);

    if (userName !== null){
        document.getElementById("demo").innerHTML =
            "Here's your new name, I hope you like it: " + sortUserName

    }

    //split string to array
    var nameArray = userName.split('');

    //sort the array
    var nameArraySort = nameArray.sort();
    console.log("nameArraysort =", nameArraySort);

    // join array back to a string
    var nameSorted = nameArraysort.join('');
    console.log("nameSorted =", nameSorted);

    // Note that I could have done the above lines as a single line:
    //   userName.toLowerCase().split('').sort().join('')
    return nameSorted;
}

//output
document.writeln("Oh hey, I've fixed your name:",
    sortUserName(), "</br>");

```

My js code

Self Evaluation Rubric						
Did you complete the assignment and did you complete it on time?	Submitted on time	Up to 1 day late	Up to 2 days late	Up to 3 days late	4 days late or more	Do you need to clarify?
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did you collaborate with a partner?	Worked with partner			Worked alone		Do you need to clarify?
	<input checked="" type="checkbox"/>			<input type="checkbox"/>		

Did you put in earnest effort and provide an articulate summary of your experience?	Excellent	Pretty good	About average	Could be improved	Not this time	<p>What supports this?</p> <p>We both completed our respective lab pages, reviewed each other's code, and helped each other understand the concepts.</p>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the assignment complete, with minimal errors, correct output, and good style?	Excellent	Pretty good	About average	Could be improved	Not this time	<p>What supports this?</p> <p>All components of the assignment format are included and are organized.</p>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
How much EXTRA effort did you put into the assignment?	A lot of extra effort		Some extra effort		Not this time	<p>What supports this?</p> <p>We went on a call and put effort into figuring out our problems. We looked online for help.</p>
	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>	
<p>Summary of your evaluation/efforts</p> <p>Our summary is included at the top of the assignment.</p>						