

Lab 7

Functions

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UCSC

ART-101-01 > Assignments > Lab 7: Functions

2021 Winter Quarter

Lab 7: Functions [Submit Assignment](#)

Due Thursday by 8:50am Points 10 Submitting a file upload File Types pdf

Big Idea

Working with your partner, write functions that take user input and manipulate a string.

Task 1: Create an index.html for Lab 7

As always, create an index page for this lab. You will have to create folders for Lab 7 (and all future labs):

```
art101
├── lab7
│   ├── css
│   │   └── index.css
│   ├── img
│   └── index.html
└── js
    └── lab7.js
```

Make sure you also put a link from your art101 homepage to lab7

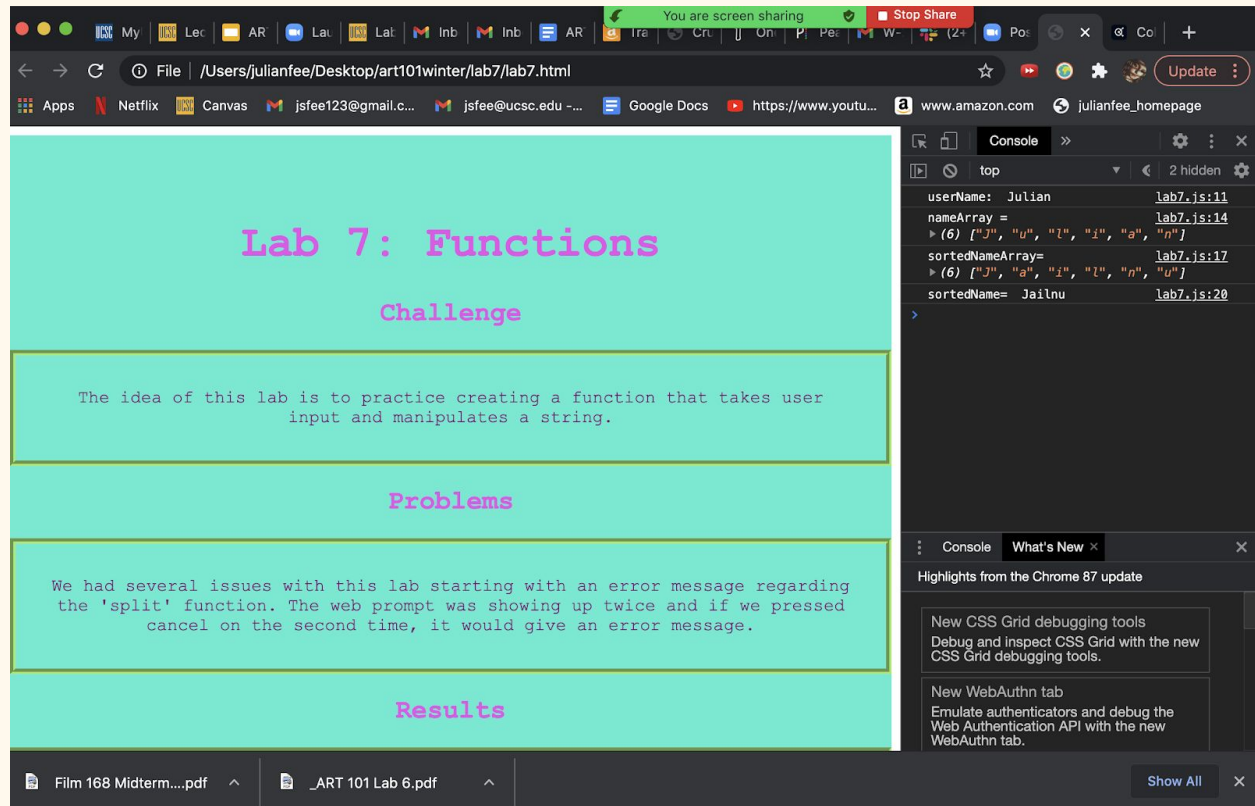
1. Create **art101/lab7/index.html** with three organized sections: **Challenge, Problems, and Results**
2. Use heading, div, and paragraph tags to organize your page
3. Link a JavaScript file from your HTML in a **<div>** like this:

```
<div>
  <h2>Script Output</h2>
  <script src="js/lab7.js"></script>
</div>
```

4. Add a CSS stylesheet in your css folder and link from **index.html**

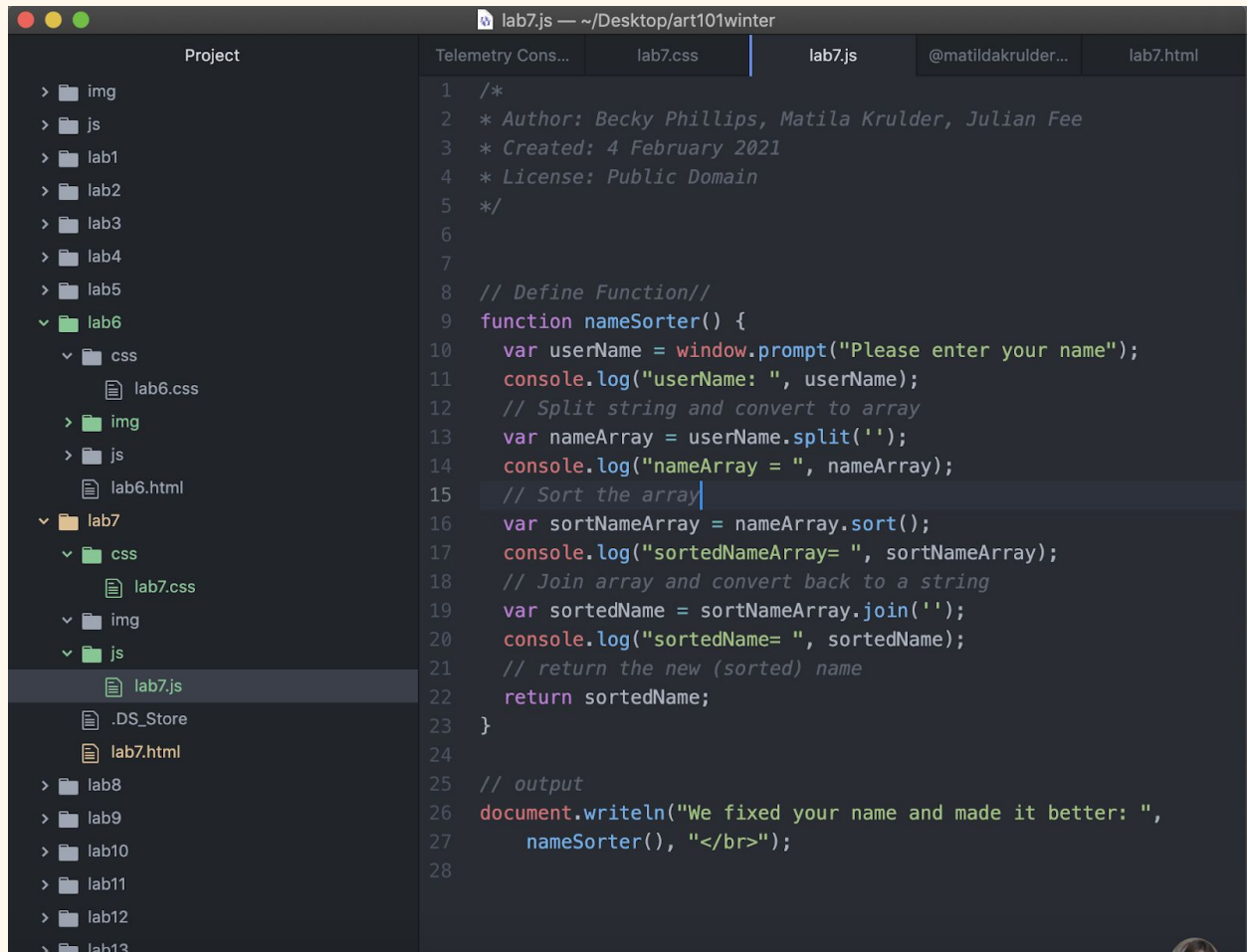
Take a **screenshot** of your Sublime source code and your final published lab page

Task 1: Create an index.html for Lab 7



(Our JavaScript in the console.)

Task 2: Create a JavaScript file



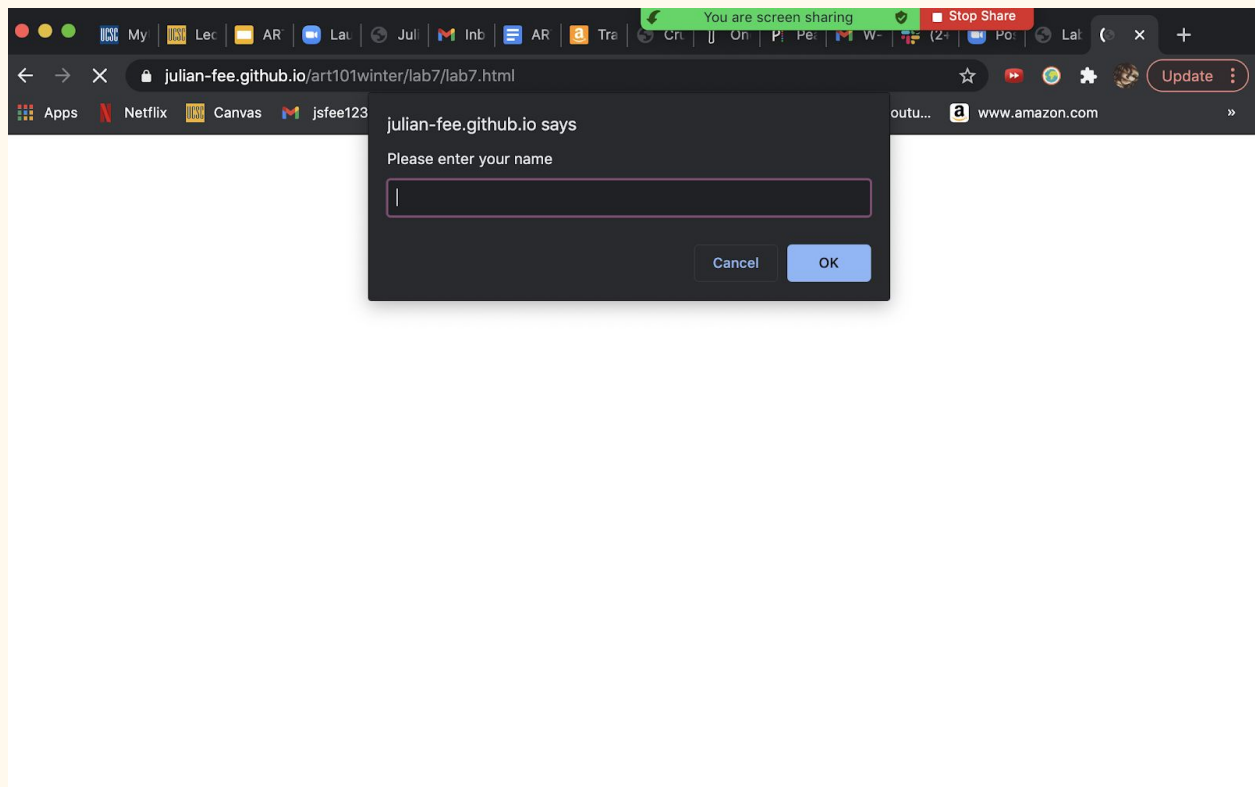
```
1  /*
2  * Author: Becky Phillips, Matila Krulder, Julian Fee
3  * Created: 4 February 2021
4  * License: Public Domain
5  */
6
7
8  // Define Function//
9  function nameSorter() {
10     var userName = window.prompt("Please enter your name");
11     console.log("userName: ", userName);
12     // Split string and convert to array
13     var nameArray = userName.split('');
14     console.log("nameArray = ", nameArray);
15     // Sort the array
16     var sortNameArray = nameArray.sort();
17     console.log("sortedNameArray= ", sortNameArray);
18     // Join array and convert back to a string
19     var sortedName = sortNameArray.join('');
20     console.log("sortedName= ", sortedName);
21     // return the new (sorted) name
22     return sortedName;
23 }
24
25 // output
26 document.writeln("We fixed your name and made it better: ",
27     nameSorter(), "<br>");
28
```

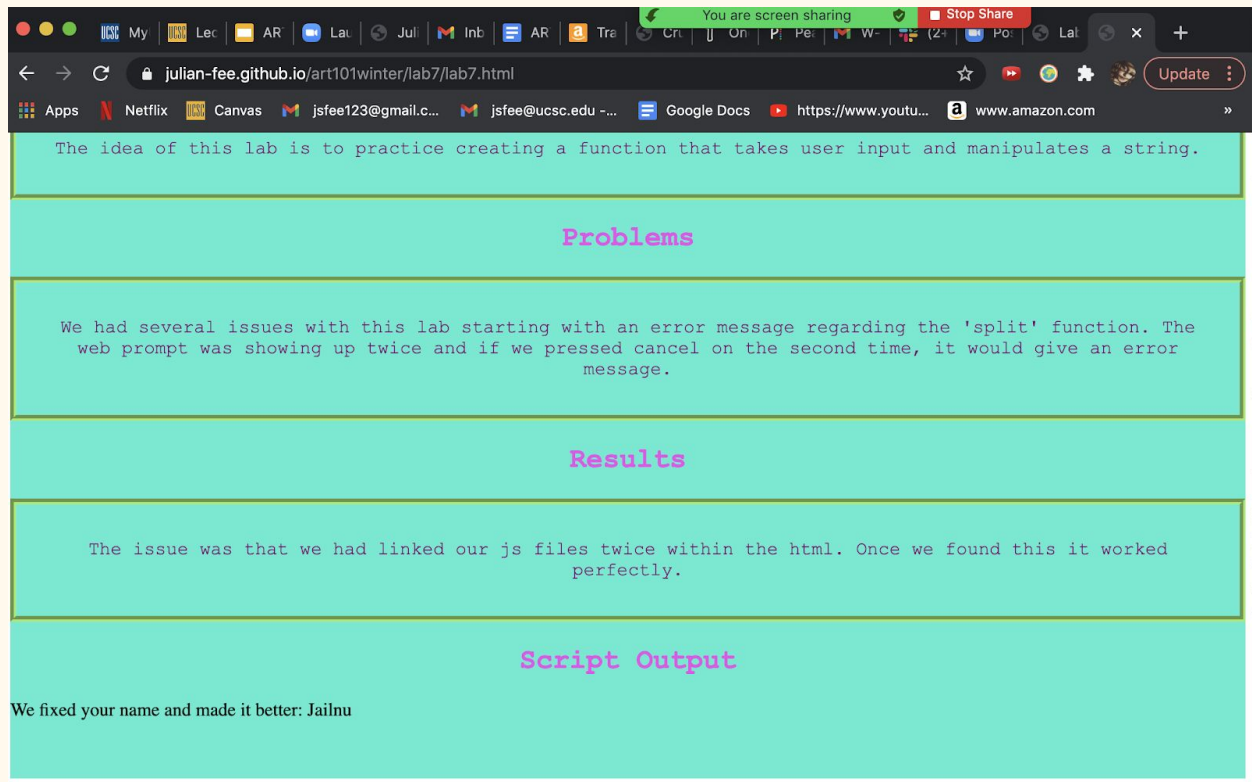
(Our JavaScript in Atom.)

Task 3: Test, Debug, and Upload

Link to published Lab 7 webpage:

<https://julian-fee.github.io/art101winter/lab7/lab7.html>





(Published Lab 7 webpage.)

Summary of Efforts:

We created a new folder for lab 7, and put the corresponding index.html, JavaScript, and CSS files into it. Initially, we had several issues with the code, because an error message kept popping up in regards to the line with the “split” function. The prompt window on the web page would pop up twice, and if we pressed “Cancel” instead of “Okay” the second time, it would give this error message. With lots of internet research and experimentation, we were able to figure out the issue: that our JS file was linked twice within the HTML page. Once we deleted the second line, the page worked perfectly. Overall, this lab was pretty challenging compared to past labs, since it involved actually interacting with a user and user input. The three of us met over zoom and worked through the lab in order to complete it and make our website work!