Eloise Shevin
Ashwin Gupta
Section C
LAB 7
2/3/2021

```
● index.html — ~/Desktop/art101

  index.html                    lab.js                    lab.css
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>Lab 7 - Functions</title>
5    <link rel="stylesheet" type="text/css" href="../css/site.css">
6    <link rel="stylesheet" type="text/css" href="css/lab.css">
7  </head>
8  <body>
9    <h1> Lab 7 - Functions</h1>
0
1    <div id="challenge">
2    <h2> Challenges </h2>
3      <p> For this lab, we needed to create a function which allows the use
4    </div>
5
6    <div id="problems">
7      <h3> Problems </h3>
8        <p> This lab was quite easy, yet we experienced a bief mment of tro
9    </div>
0
1    <div id="results">
2      <h4> Results </h4>
3        <p> Here is the program execution for our Lab: </p>
4        <div>
5          <h5>Script Output</h5>
6          <script src="js/lab.js"></script>
7        </div>
8  </body>
9  </html>
0
```
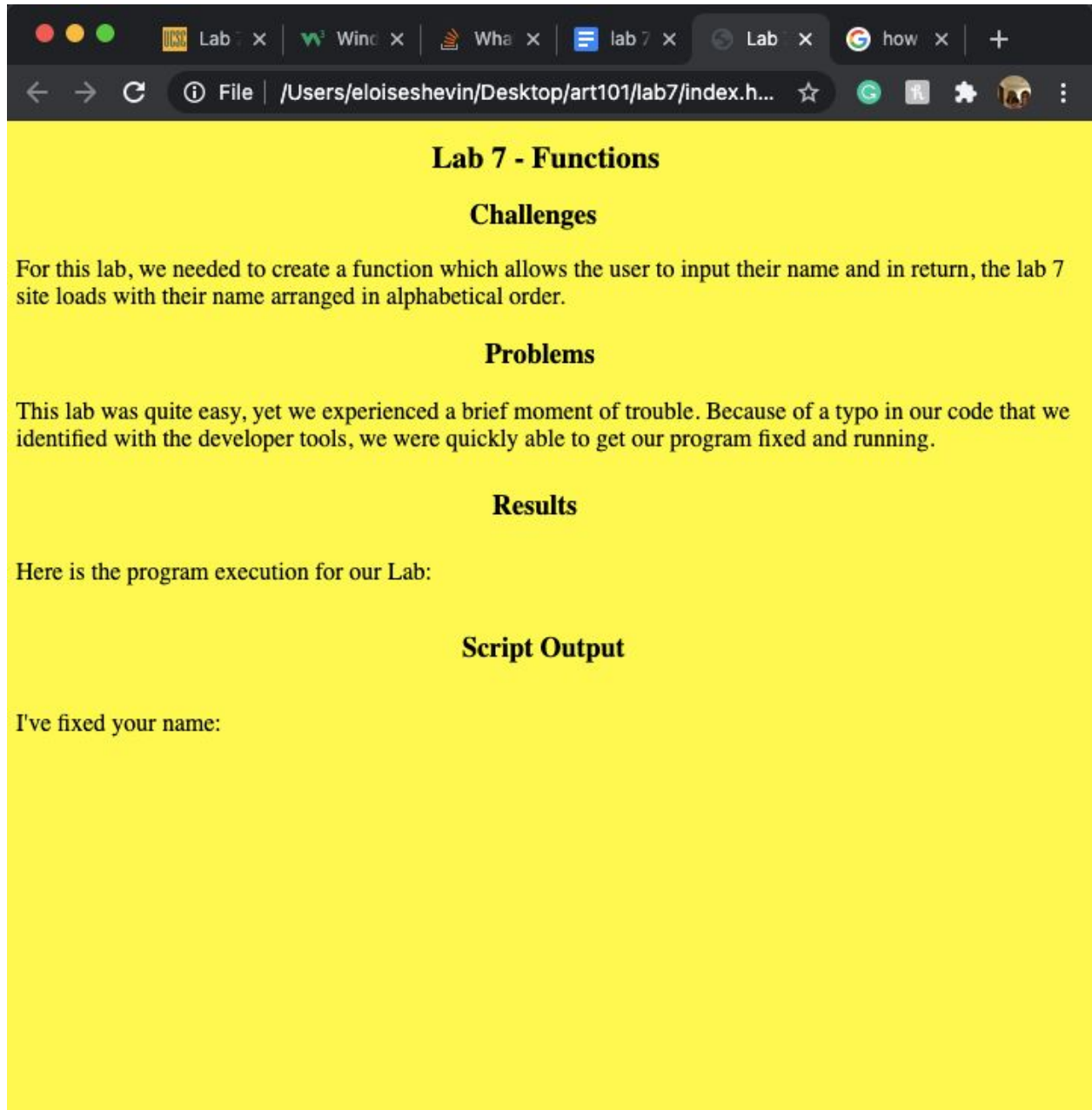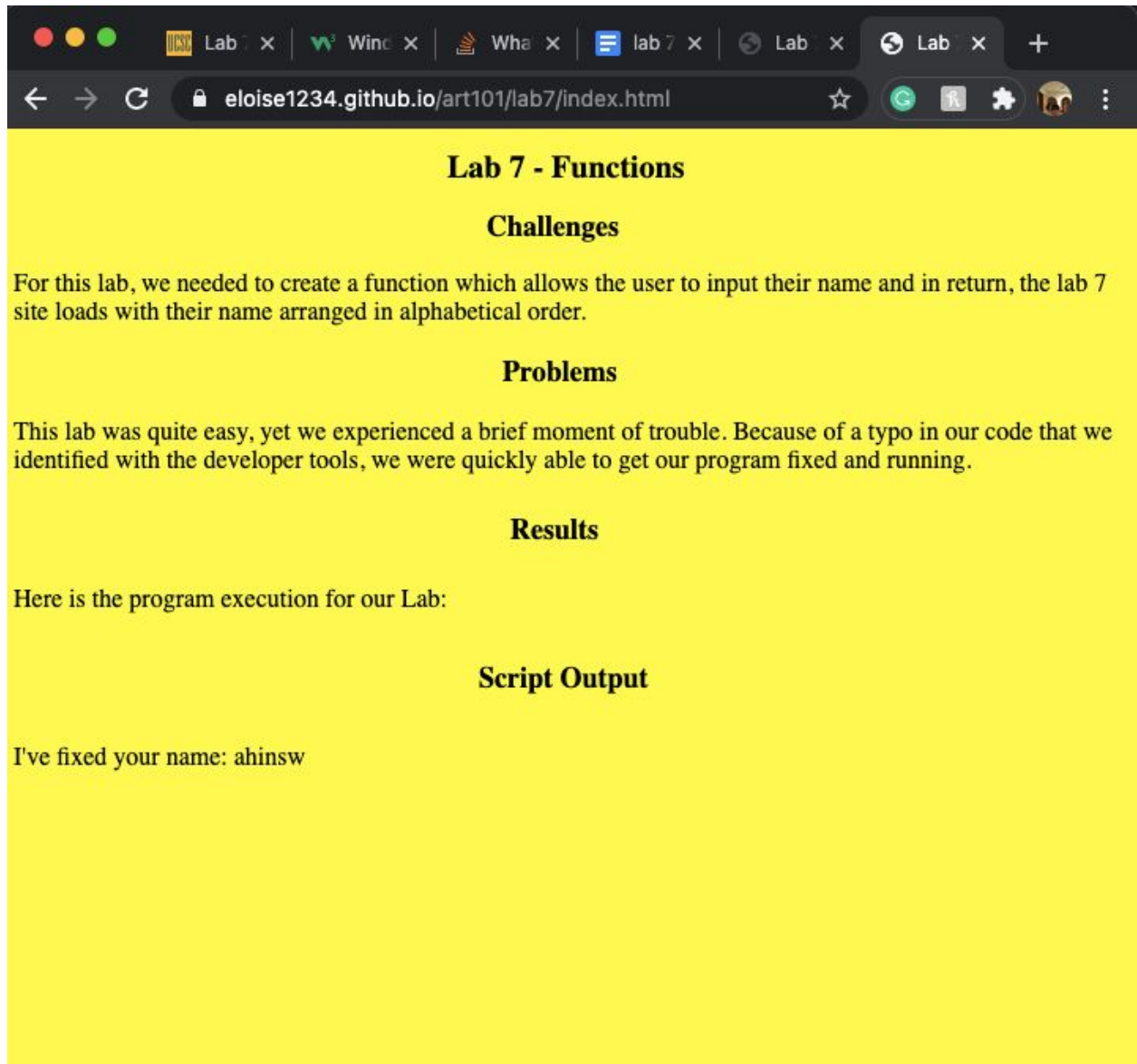
Task 1: HTML code

Lab 7 - Functions

Challenges

For this lab, we needed to create a function which allows the user to input their name and in return, the lab 7 site loads with their name arranged in alphabetical order.

Problems

This lab was quite easy, yet we experienced a brief moment of trouble. Because of a typo in our code that we identified with the developer tools, we were quickly able to get our program fixed and running.

Results

Here is the program execution for our Lab:

Script Output

I've fixed your name:

Task 1: Final published lab page

index.html	lab.js	lab.css

```js
/**
 * Author: Eloise Shevin and Ashwin Gupta
 * Created:    2.03.2021
 * License: Public Domain
 **/

function sortName() {
  var userName = window.prompt ("Please Enter Your Name");
  console.log("Username =", userName);
  var nameArray = userName.split('');
  console.log("nameArray=", nameArray);
  var nameArraySort = nameArray.sort();
  console.log("nameArraySort= ", nameArraySort);
  var nameSorted = nameArraySort.join('');
  console.log("nameSorted =", nameSorted);
  return nameSorted;
}
document.writeln("I've fixed your name: ", sortName(), "</br>");
```

Task 2: JS code

Lab 7 - Functions

Challenges

For this lab, we needed to create a function which allows the user to input their name and in return, the lab 7 site loads with their name arranged in alphabetical order.

Problems

This lab was quite easy, yet we experienced a brief moment of trouble. Because of a typo in our code that we identified with the developer tools, we were quickly able to get our program fixed and running.

Results

Here is the program execution for our Lab:

Script Output

I've fixed your name: ahinsw

Task 3: Lab on GitHub
https://eloise1234.github.io/art101/lab7/index.html

Task X: Bonus

1. The ASCII values of lowercase letters are higher than those of uppercase letters, and as the sort function sorts based on these values, when sorting in ascending order uppercase letters are displayed before their lowercase counterparts. The sort() function does this by default.

Script Output

I've fixed your name: EOSeil

2. Our function ignores the spaces as seen in this example:

This page says

Please Enter Your Name
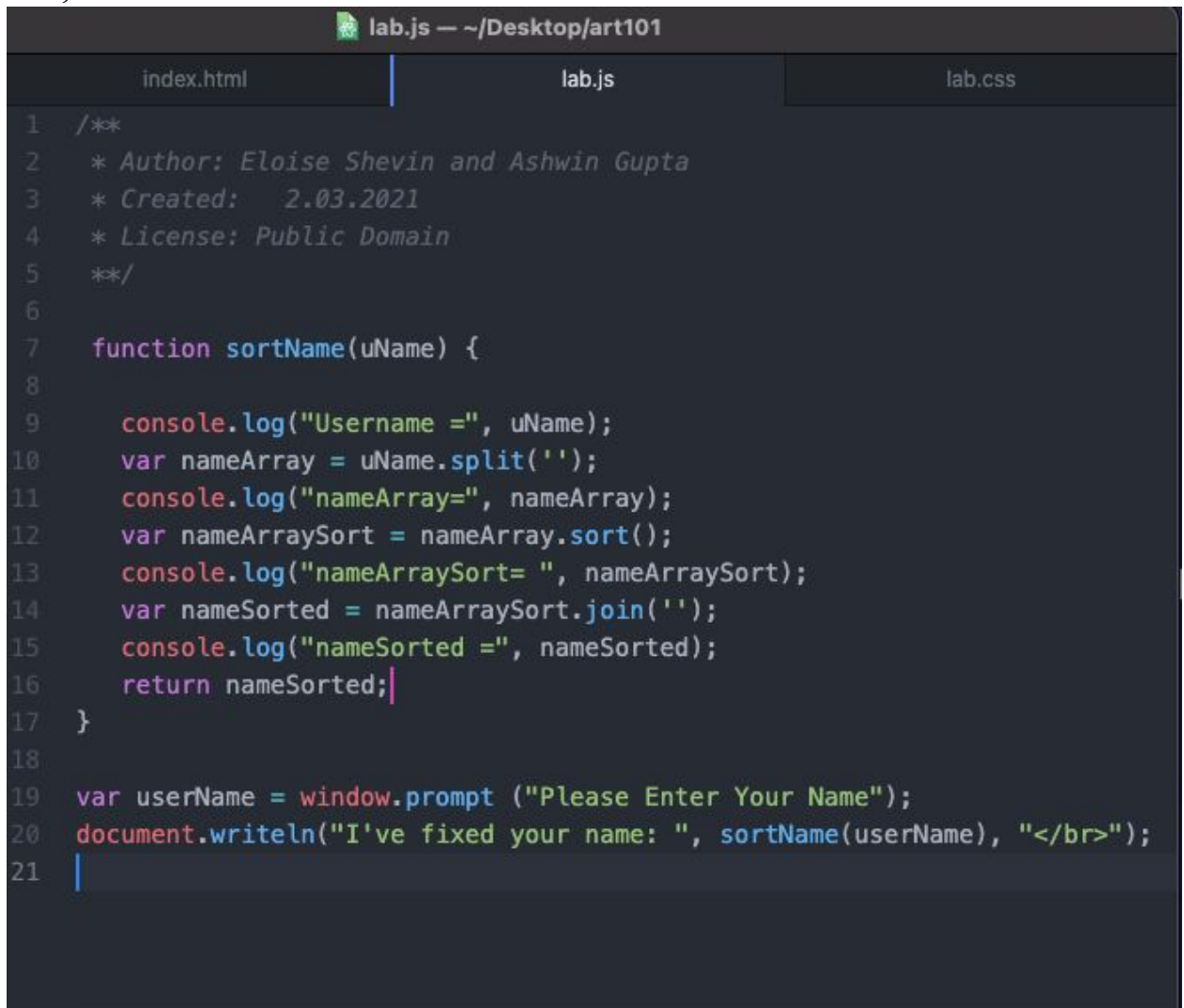
Ashwin Gupta

Cancel   OK

Script Output

I've fixed your name: AGahinpstuw

3. Our function is not able to create anagrams, not ones that make sense anyway. We tried researching anagrams but it seemed out of our scope.

4. It is possible to add CSS to the function but only in HTML and not in JS. We struggled a bit yet were able to achieve our goal.

Script Output

I've fixed your name: eeilos

5. It is possible to make it so **window.prompt()** happens outside of your functions, then pass the name as a parameter to the functions and return the result, as shown in the code below:

```
lab.js — ~/Desktop/art101

index.html                    lab.js                    lab.css

1   /**
2    * Author: Eloise Shevin and Ashwin Gupta
3    * Created:   2.03.2021
4    * License: Public Domain
5    **/
6
7   function sortName(uName) {
8
9       console.log("Username =", uName);
10      var nameArray = uName.split('');
11      console.log("nameArray=", nameArray);
12      var nameArraySort = nameArray.sort();
13      console.log("nameArraySort= ", nameArraySort);
14      var nameSorted = nameArraySort.join('');
15      console.log("nameSorted =", nameSorted);
16      return nameSorted;
17  }
18
19  var userName = window.prompt ("Please Enter Your Name");
20  document.writeln("I've fixed your name: ", sortName(userName), "</br>");
21
```

Summary of efforts:

We had an easy time creating the HTML and designing its CSS stylesheet. We find that the more we practice this sort of task, it then becomes an unproblematic routine we are familiar with. The CSS process was fun to make as we were able to experiment with new background and font colors. For the Javascript section, we had some minor syntax issues which were easily fixed after some inspection. The bonus tasks were more difficult and required some testing and research.