

# Lab 12:

# Conditionals

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## Lab 12: Conditionals

Submit Assignment

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

### Big Idea

Working with your partner, create a function that depends on conditionals.

### Task 1: Create an index.html for your lab

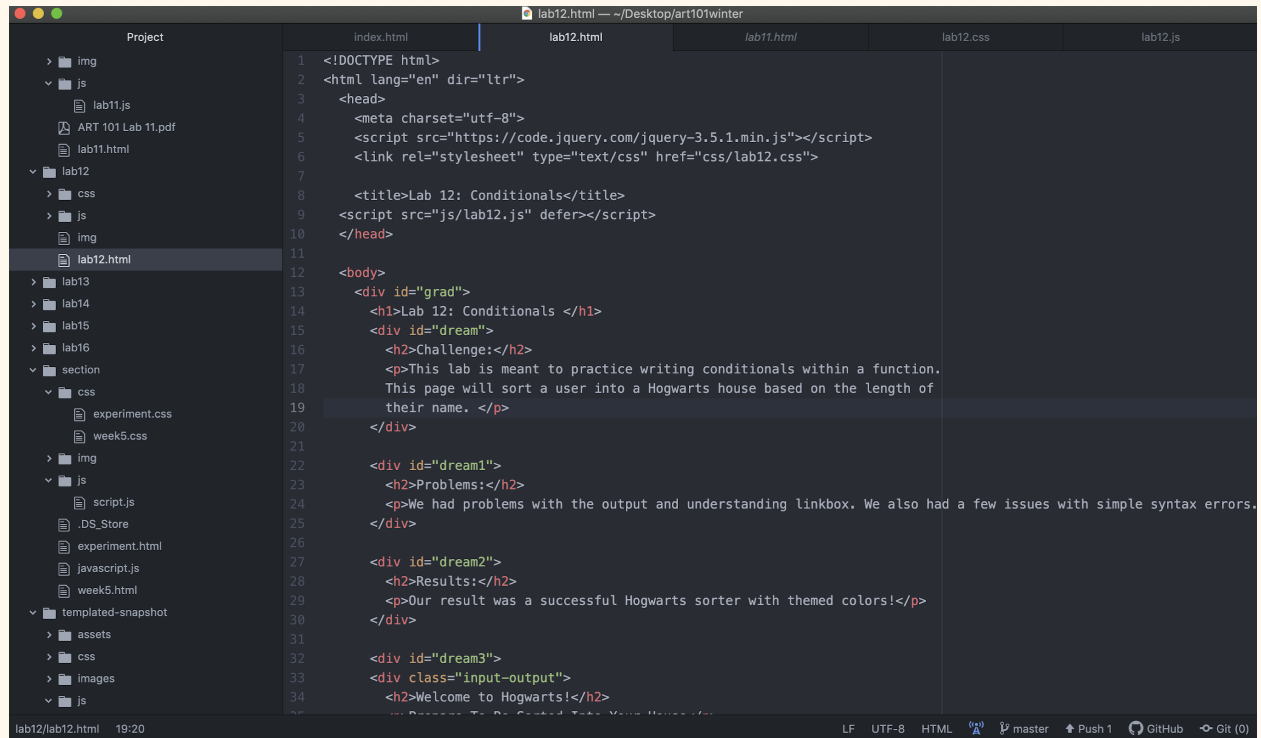
As always, create the proper folders and an index, css, and JavaScript files for this lab. And make sure you also put a link from your art101 homepage to this lab

1. Create an **index.html** with three organized sections: **Challenge, Problems, and Results**
2. Use heading, div, and paragraph tags to organize your page
3. As usual, link a JavaScript file from the `<head>` section of your HTML like this:

```
<head>
  <title>Lab 12</title>
  <script src="js/lab12.js" defer></script>
</head>
```

4. Add a CSS stylesheet in your css folder and link from **index.html**
5. Add a link to your JavaScript file in your index page.
6. Create an input form field `<input type="text" id="input">` and label it "Please enter your name for sorting"
7. Create a button `<button id="button">` for submitting
8. Create an output div `<div id="output">`

## Task 1: Create an index.html for Lab 12



```
1 <!DOCTYPE html>
2 <html lang="en" dir="ltr">
3   <head>
4     <meta charset="utf-8">
5     <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
6     <link rel="stylesheet" type="text/css" href="css/lab12.css">
7
8     <title>Lab 12: Conditionals</title>
9     <script src="js/lab12.js" defer></script>
10  </head>
11
12  <body>
13    <div id="grad">
14      <h1>Lab 12: Conditionals </h1>
15      <div id="dream">
16        <h2>Challenge:</h2>
17        <p>This lab is meant to practice writing conditionals within a function.
18        This page will sort a user into a Hogwarts house based on the length of
19        their name. </p>
20      </div>
21
22      <div id="dream1">
23        <h2>Problems:</h2>
24        <p>We had problems with the output and understanding linkbox. We also had a few issues with simple syntax errors.
25      </div>
26
27      <div id="dream2">
28        <h2>Results:</h2>
29        <p>Our result was a successful Hogwarts sorter with themed colors!</p>
30      </div>
31
32      <div id="dream3">
33        <div class="input-output">
34          <h2>Welcome to Hogwarts!</h2>
```

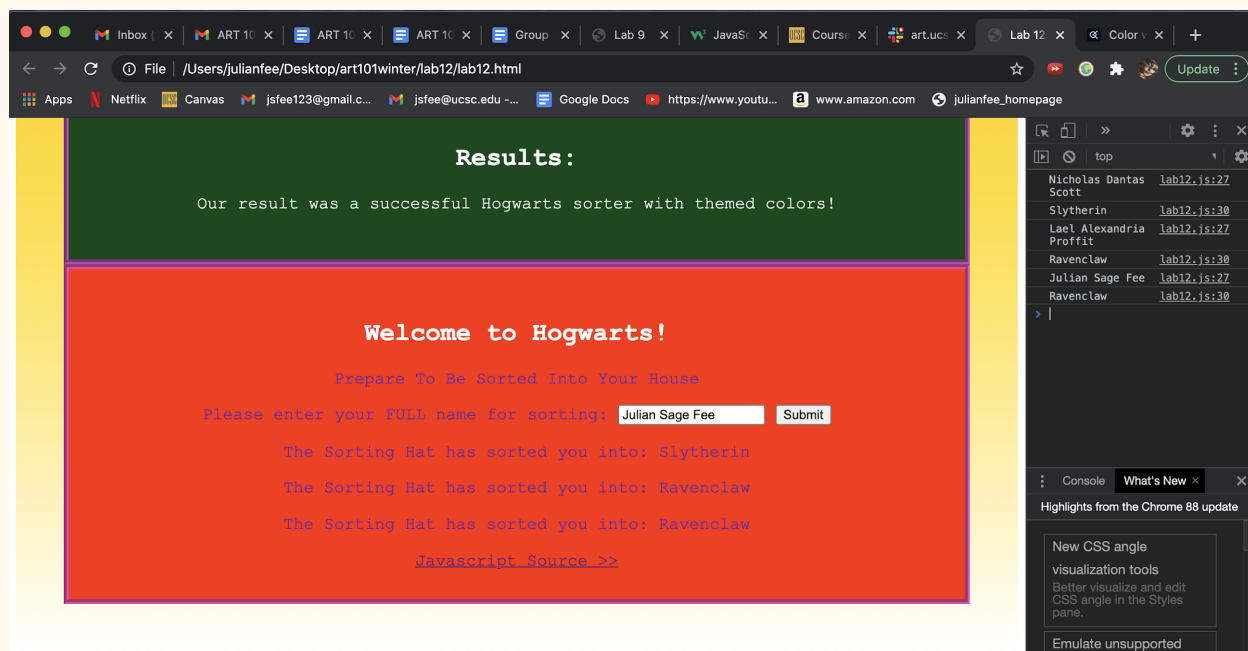
*(Our HTML in Atom.)*

## Task 2: Create a JavaScript file

```
1  /*
2  * Author: Becky Phillips, Matila Krulder, Julian Fee
3  * Created: 23 February 2021
4  * License: Public Domain
5  */
6
7  // Lab 12: Conditionals
8
9
10 // Create a function sortingHat()
11 function sortingHat(str){
12     // counts the letters in str and assigns it to a variable length
13     len = str.length;
14     // uses modulus (%) operator to get the remainder with 4: mod = length % 4;
15     mod = len % 4;
16     // create a conditional that will return Gryffindor, Ravenclaw, Slytherin, and Hufflepuff
17     if (mod == 0) {
18         return "Hufflepuff"
19     }
20     else if (mod == 1) {
21         return "Slytherin"
22     }
23     else if (mod == 2) {
24         return "Gryffindor"
25     }
26     else if (mod == 3) {
27         return "Ravenclaw"
28     }
29 };
30
31
32 // define myButton element
33 var myButton = $("#button");
34 // Add click function to myButton
35 myButton.click(function(){
36     // that gets the value of #input and assigns it to a variable name
37     var name = $("#input").val();
38     console.log(name);
39     // runs sortingHat(name) and stores the result in a variable house
40     var house = sortingHat(name);
41     console.log(house);
42     // appends a new styled paragraph to #output that says "The Sorting Hat has sorted you into " + house
43     $("#output").append("<p>The Sorting Hat has sorted you into: " + house + "</p>");
44 });
45
```

*(Our JavaScript in Atom.)*

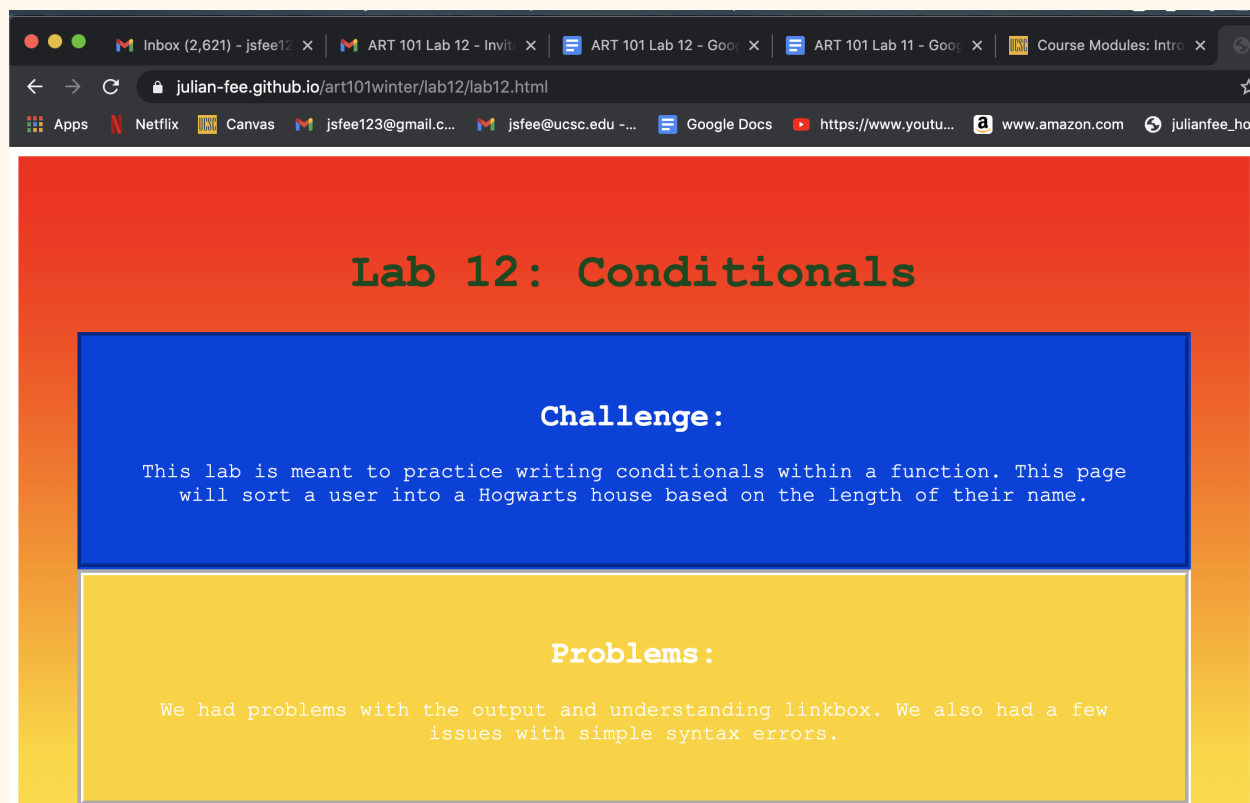
## Task 3: Test, Debug, and Upload



*(Our local file opened on a webpage.)*

*Link to published Lab 12 webpage:*

<https://julian-fee.github.io/art101winter/lab12/lab12.html>



*(Published Lab 12 webpage.)*

## Summary of Efforts:

We met to discuss the Lab on Monday morning. The HTML and CSS went fairly smooth, except for having to do some renaming of divs. We also were a bit confused about the “input-output” and the “linkbox” but we were able to figure it out after some further investigation. After linking in the jQuery, we found the sorting hat function to be fairly straightforward and actually enjoyed trying out the new “if”, “else if” structure. We decided to try some new things with CSS that challenged our limits and resulted in a pretty cool design! Ravenclaw all the way!