

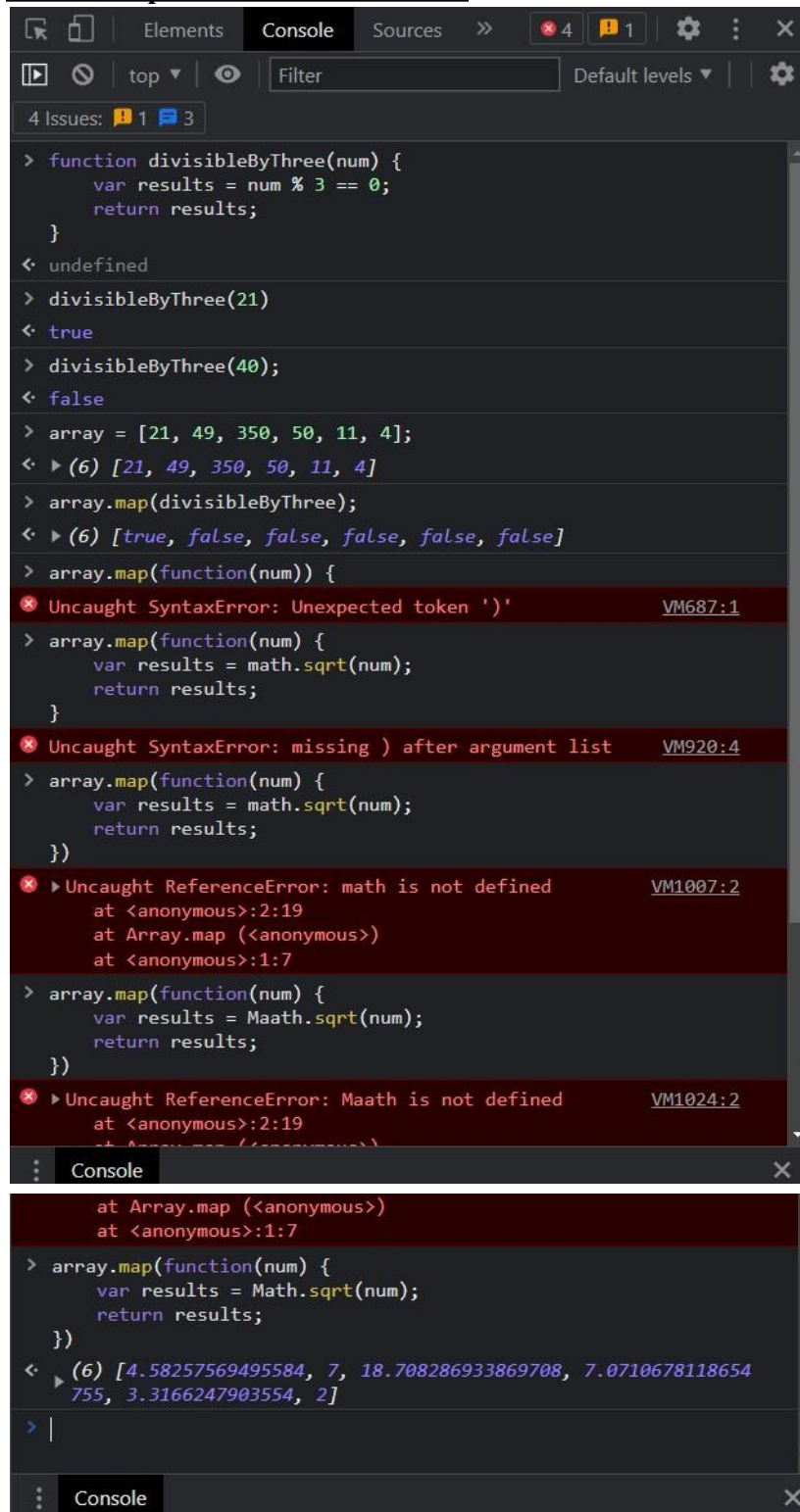
Pichy Jumholwong & Zac Nakamura  
Lab 8: Anon Functions and Callbacks  
*5/3/22*

## Task 1: Create an index.html for Lab 8

```
1 <!DOCTYPE html>
2 </html>
3 <html>
4   <head>
5     <title>Lab 8 - Call Functions and Callbacks</title>
6     <script src="js/lab.js"></script>
7     <link rel="stylesheet" type="text/css" href="../css/site.css">
8     <link rel="stylesheet" type="text/css" href="css/lab.css">
9   </head>
10  <body>
11    <h1>Lab 8: Call Functions and Callbacks</h1>
12    <h2>Challenges</h2>
13    <p>When writing our function in the javascript file, we did not know why (function(num)) did not work and
14    realized that javascript is not like python, therefore the closing parentheses should go after the curly brace.
15  </p>
16  <h2>Problems</h2>
17  <p>We had problems with understanding callback functions and task x because although we were following
18  the steps on W3Schools, we did not understand how it could work for our code.</p>
19  <h2>Results</h2>
20  <p>Check out the console for our results!</p>
21  <script src="js/lab.js"></script>
22 </body>
23 </html>
24
```

Screenshot of our Atom source code

## Task 2: Experiment in the Console



The screenshot displays a web browser's developer console with the 'Console' tab selected. It shows a series of JavaScript commands and their outputs, along with several error messages.

```
> function divisibleByThree(num) {  
    var results = num % 3 == 0;  
    return results;  
}  
< undefined  
> divisibleByThree(21)  
< true  
> divisibleByThree(40);  
< false  
> array = [21, 49, 350, 50, 11, 4];  
< ▶ (6) [21, 49, 350, 50, 11, 4]  
> array.map(divisibleByThree);  
< ▶ (6) [true, false, false, false, false, false]  
> array.map(function(num)) {  
✖ Uncaught SyntaxError: Unexpected token ')'  
    VM687:1  
> array.map(function(num) {  
    var results = math.sqrt(num);  
    return results;  
})  
✖ Uncaught SyntaxError: missing ) after argument list  
    VM920:4  
> array.map(function(num) {  
    var results = math.sqrt(num);  
    return results;  
}))  
✖ ▶ Uncaught ReferenceError: math is not defined  
    at <anonymous>:2:19  
    at Array.map (<anonymous>)  
    at <anonymous>:1:7  
    VM1007:2  
> array.map(function(num) {  
    var results = Maath.sqrt(num);  
    return results;  
}))  
✖ ▶ Uncaught ReferenceError: Maath is not defined  
    at <anonymous>:2:19  
    at Array.map (<anonymous>)  
    at <anonymous>:1:7  
    VM1024:2  
    at Array.map (<anonymous>)  
    at <anonymous>:1:7  
> array.map(function(num) {  
    var results = Math.sqrt(num);  
    return results;  
}))  
< (6) [4.58257569495584, 7, 18.708286933869708, 7.0710678118654755, 3.3166247903554, 2]  
> |
```

Screenshot of our console results

### Task 3: Create a JavaScript file

```
1 // Authors: Pichy Jumholwong and Zac Nakamura
2 // Created: 3 May 2022
3 // License: Public Domain
4
5 function divisibleByThree(num) {
6     var results = num % 3 == 0;
7     return results;
8 }
9
10 // test function
11 console.log("Is 21 divisible by three? ", divisibleByThree(21));
12 console.log("Is 40 divisible by three? ", divisibleByThree(40));
13
14 array = [21, 49, 350, 50, 11, 4];
15 console.log("Our array of numbers", array);
16
17 var result = array.map(divisibleByThree);
18 console.log("Test if numbers in array are divisible by three:", result)
19
20 var result = array.map(function(num) {
21     var result = Math.sqrt(num);
22     return result;
23 })
24
25 console.log("The squareroot of the numbers in our array:", result);
26
```

Screenshot of our JavaScript file in Atom

### Task 4: Test, Debug and Upload

## Lab 8: Call Functions and Callbacks

### Challenges

When writing our function in the javascript file, we did not know why (function(num)) did not work and realized that javascript is not like python, therefore the closing parentheses should go after the curly brace.

### Problems

We had problems with understanding callback functions and task x because although we were following the steps on W3Schools, we did not understand how it could work for our code.

### Results

Check out the console for our results!

Elements Console Sources Network Performance

top Filter Default levels No Issues

Is 21 divisible by three? true VM121 lab.js:11  
Is 40 divisible by three? false VM121 lab.js:12  
Our array of numbers ▶ (6) [21, 49, 350, 50, 11, 4] VM121 lab.js:15  
Test if numbers in array are divisible by three:  
▶ (6) [true, false, false, false, false, false] VM121 lab.js:18  
The squareroot of the numbers in our array: VM121 lab.js:25  
▶ (6) [4.58257569495584, 7, 18.708286933869708, 7.0710678118654755, 3.3166247903554, 2] VM121 lab.js:25  
Is 21 divisible by three? true lab.js:11  
Is 40 divisible by three? false lab.js:12  
Our array of numbers ▶ (6) [21, 49, 350, 50, 11, 4] lab.js:15  
Test if numbers in array are divisible by three:  
▶ (6) [true, false, false, false, false, false] lab.js:18  
The squareroot of the numbers in our array: lab.js:25  
▶ (6) [4.58257569495584, 7, 18.708286933869708, 7.0710678118654755, 3.3166247903554, 2] lab.js:25

Screenshot of our working file with our console open

## Self-Evaluation Rubric:

<u>Self Evaluation Rubric (Pichy Jumpholwong and Zac Nakamura)</u>						
<u>Did you complete the assignment and did you complete it on time?</u>	<u>Submitted on time</u>	<u>Up to 1 day late</u>	<u>Up to 2 days late</u>	<u>Up to 3 days late</u>	<u>4 days late or more</u>	<u>Do you need to clarify?</u>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Did you collaborate with a partner?</u>	<u>Worked with partner</u>			<u>Worked alone</u>		<u>Do you need to clarify?</u>
	<input checked="" type="checkbox"/>			<input type="checkbox"/>		
<u>Did you put in earnest effort and provide an articulate summary of your experience?</u>	<u>Excellent</u>	<u>Pretty good</u>	<u>About average</u>	<u>Could be improved</u>	<u>Not this time</u>	<u>What supports this?</u>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Was the assignment complete, with minimal errors, correct output, and good style?</u>	<u>Excellent</u>	<u>Pretty good</u>	<u>About average</u>	<u>Could be improved</u>	<u>Not this time</u>	<u>What supports this?</u>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>How much EXTRA effort did you put into the assignment?</u>	<u>A lot of extra effort</u>		<u>Some extra effort</u>		<u>Not this time</u>	<u>What supports this?</u>
	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<p><u>Summary of your evaluation/efforts:</u></p> <p>We forgot at times that javascript needs semicolons, however, instead of going back, we decided to make another note and add semicolons for testing our functions. We put in a lot of extra effort when we were trying to figure out Task X, the Bonus section. We looked at examples on W3Schools and other websites as well to see if we could get different examples and descriptions. Although we could not figure out Task X, we decided to leave our code in the javascript file and comment it out so that we can remember it, go back to it, or just simply have it as a reference. In addition, we also asked another classmate if they had figured it out as well. Although they did not, we still thought it was a great idea to ask them for potential help.</p>						