Intro to JavaScript Week 3 Coding Assignment

Points possible: 75

URL to Your GitHub Repository:
https://github.com/angelcruz9/promineotech/commit/80634300991c23b3deb61ab110b4ca68fb53b177
URL to Your Coding Assignment Video:
I'm currently out of the country and i do not have access to good internet to download a screen recorder or upload the video sorry will update my assignment once its done

Instructions: In VS Code, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your JavaScript project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Coding Steps:

- Create an array called ages that contains the following values: 3, 9, 23, 64, 2, 8, 28, 93.
    - Programmatically subtract the value of the first element in the array from the value in the last element of the array (do not use numbers to reference the last element, find it programmatically, ages[7] – ages[0] is not allowed). Print the result to the console.
    - Add a new age to your array and repeat the step above to ensure it is dynamic (works for arrays of different lengths).
    - Use a loop to iterate through the array and calculate the average age. Print the result to the console.
- Create an array called names that contains the following values: 'Sam', 'Tommy', 'Tim', 'Sally', 'Buck', 'Bob'.
    - Use a loop to iterate through the array and calculate the average number of letters per name. Print the result to the console.
    - Use a loop to iterate through the array again and concatenate all the names together, separated by spaces, and print the result to the console.
- How do you access the last element of any array?
- How do you access the first element of any array?
- Create a new array called nameLengths. Write a loop to iterate over the previously created names array and add the length of each name to the nameLengths array.
  For example:

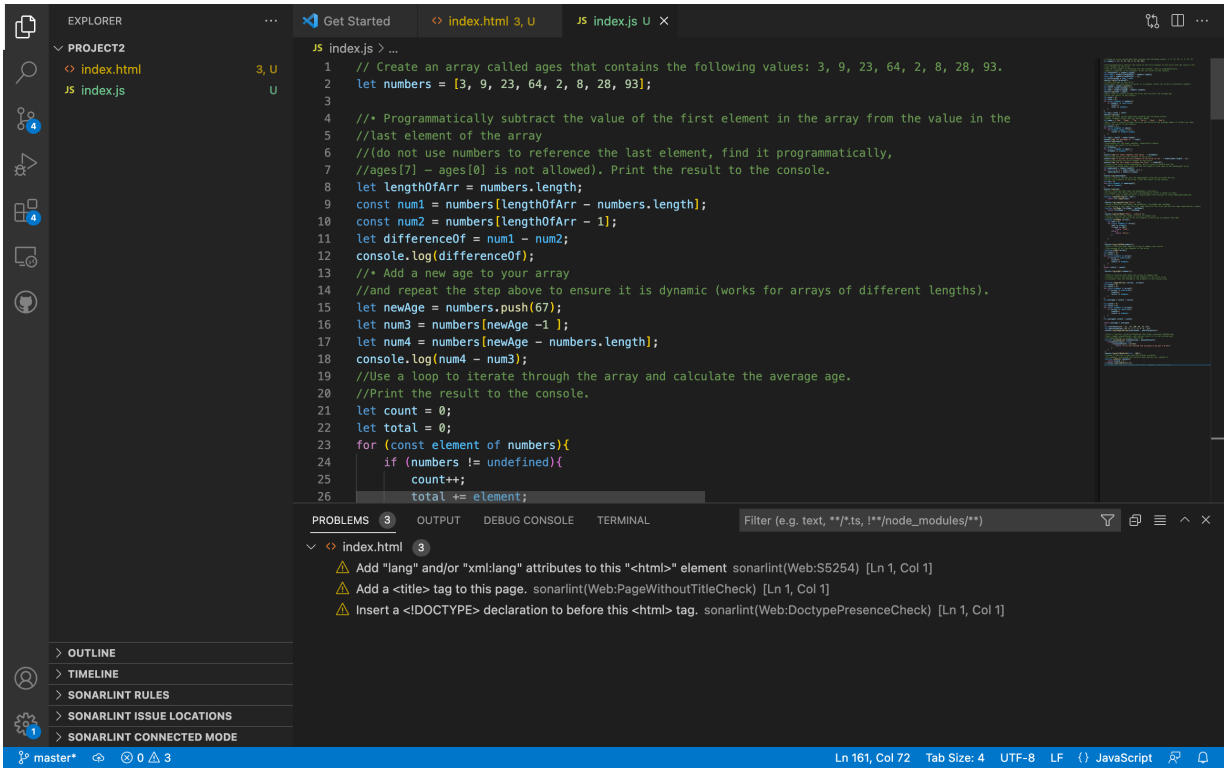
namesArray = ["Kelly", "Sam", "Kate"] //given this array
nameLengths = [5, 3, 4] //create this new array

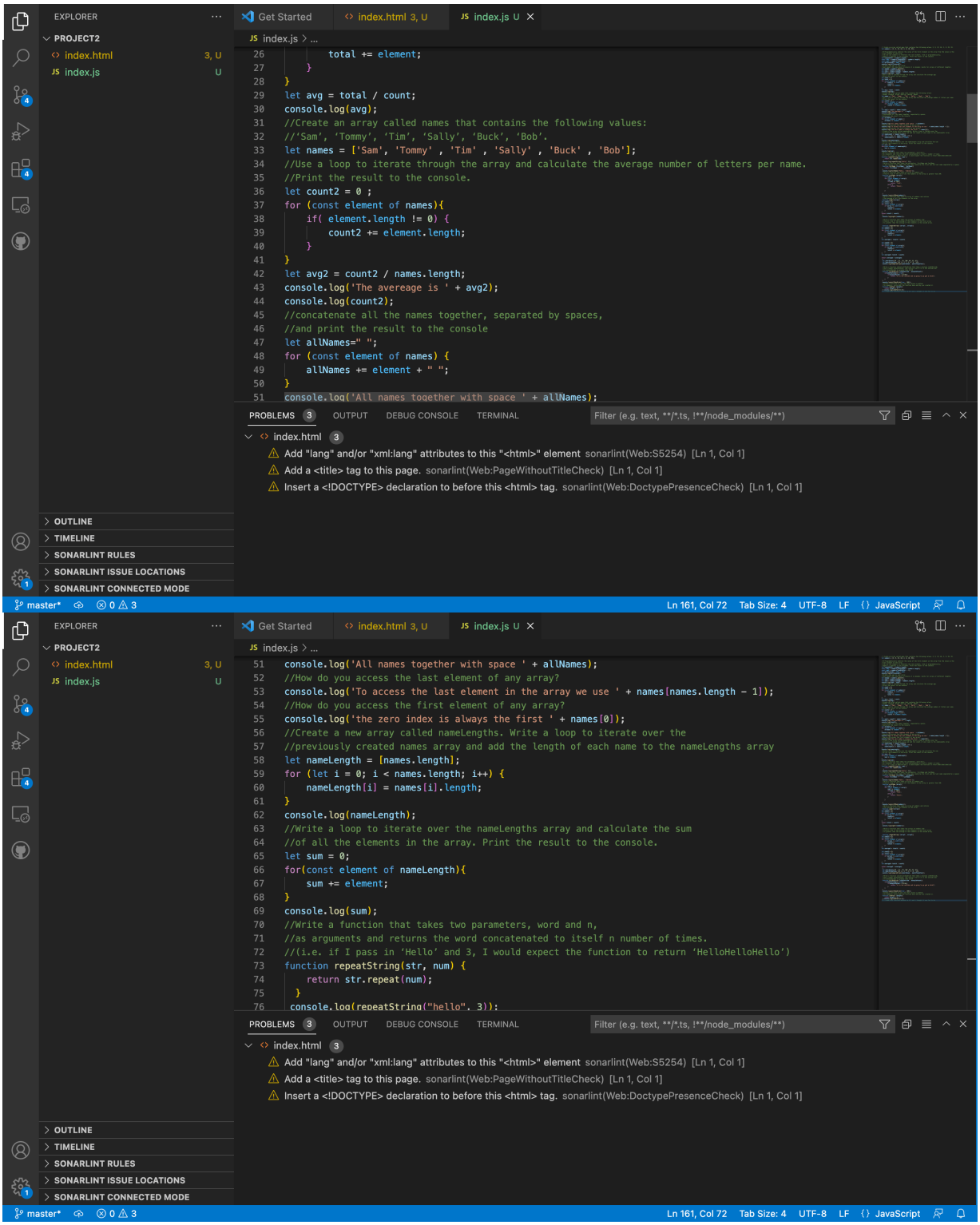
- Write a loop to iterate over the nameLengths array and calculate the sum of all the elements in the array. Print the result to the console.
- Write a function that takes two parameters, word and n, as arguments and returns the

word concatenated to itself n number of times. (i.e. if I pass in ‘Hello’ and 3, I would expect the function to return ‘HelloHelloHello’).

- Write a function that takes two parameters, firstName and lastName, and returns a full name (the full name should be the first and the last name separated by a space).
- Write a function that takes an array of numbers and returns true if the sum of all the numbers in the array is greater than 100.
- Write a function that takes an array of numbers and returns the average of all the elements in the array.
- Write a function that takes two arrays of numbers and returns true if the average of the elements in the first array is greater than the average of the elements in the second array.
- Write a function called willBuyDrink that takes a boolean isHotOutside, and a number moneyInPocket, and returns true if it is hot outside and if moneyInPocket is greater than 10.50.
- Create a function of your own that solves a problem. In comments, write what the function does and why you created it.

Screenshots of Code:




EXPLORER
Get Started
index.html 3, U
index.js U
PROJECT2
index.html 3, U
index.js U
total += element;
}
}
let avg = total / count;
console.log(avg);
//Create an array called names that contains the following values:
//'Sam', 'Tommy', 'Tim', 'Sally', 'Buck', 'Bob'.
let names = ['Sam', 'Tommy' , 'Tim' , 'Sally' , 'Buck' , 'Bob'];
//Use a loop to iterate through the array and calculate the average number of letters per name.
//Print the result to the console.
let count2 = 0 ;
for (const element of names){
if(element.length != 0) {
count2 += element.length;
}
}
let avg2 = count2 / names.length;
console.log('The avereage is ' + avg2);
console.log(count2);
//concatenate all the names together, separated by spaces,
//and print the result to the console
let allNames=" ";
for (const element of names) {
allNames += element + " ";
}
console.log('All names together with space ' + allNames);
PROBLEMS 3
OUTPUT
DEBUG CONSOLE
TERMINAL
Filter (e.g. text, **/*.ts, !**/node_modules/**)
index.html 3
Add "lang" and/or "xml:lang" attributes to this "<html>" element sonarlint(Web:S5254) [Ln 1, Col 1]
Add a <title> tag to this page. sonarlint(Web:PageWithoutTitleCheck) [Ln 1, Col 1]
Insert a <!DOCTYPE> declaration to before this <html> tag. sonarlint(Web:DoctypePresenceCheck) [Ln 1, Col 1]
OUTLINE
TIMELINE
SONARLINT RULES
SONARLINT ISSUE LOCATIONS
SONARLINT CONNECTED MODE
master*
Ln 161, Col 72
Tab Size: 4
UTF-8
LF
JavaScript

EXPLORER
Get Started
index.html 3, U
index.js U
PROJECT2
index.html 3, U
index.js U
console.log('All names together with space ' + allNames);
//How do you access the last element of any array?
console.log('To access the last element in the array we use ' + names[names.length - 1]);
//How do you access the first element of any array?
console.log('the zero index is always the first ' + names[0]);
//Create a new array called nameLengths. Write a loop to iterate over the
//previously created names array and add the length of each name to the nameLengths array
let nameLength = [names.length];
for (let i = 0; i < names.length; i++) {
nameLength[i] = names[i].length;
}
console.log(nameLength);
//Write a loop to iterate over the nameLengths array and calculate the sum
//of all the elements in the array. Print the result to the console.
let sum = 0;
for(const element of nameLength){
sum += element;
}
console.log(sum);
//Write a function that takes two parameters, word and n,
//as arguments and returns the word concatenated to itself n number of times.
//(i.e. if I pass in 'Hello' and 3, I would expect the function to return 'HelloHelloHello')
function repeatString(str, num) {
return str.repeat(num);
}
console.log(repeatString("hello", 3));
PROBLEMS 3
OUTPUT
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TERMINAL
Filter (e.g. text, **/*.ts, !**/node_modules/**)
index.html 3
Add "lang" and/or "xml:lang" attributes to this "<html>" element sonarlint(Web:S5254) [Ln 1, Col 1]
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SONARLINT ISSUE LOCATIONS
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master*
Ln 161, Col 72
Tab Size: 4
UTF-8
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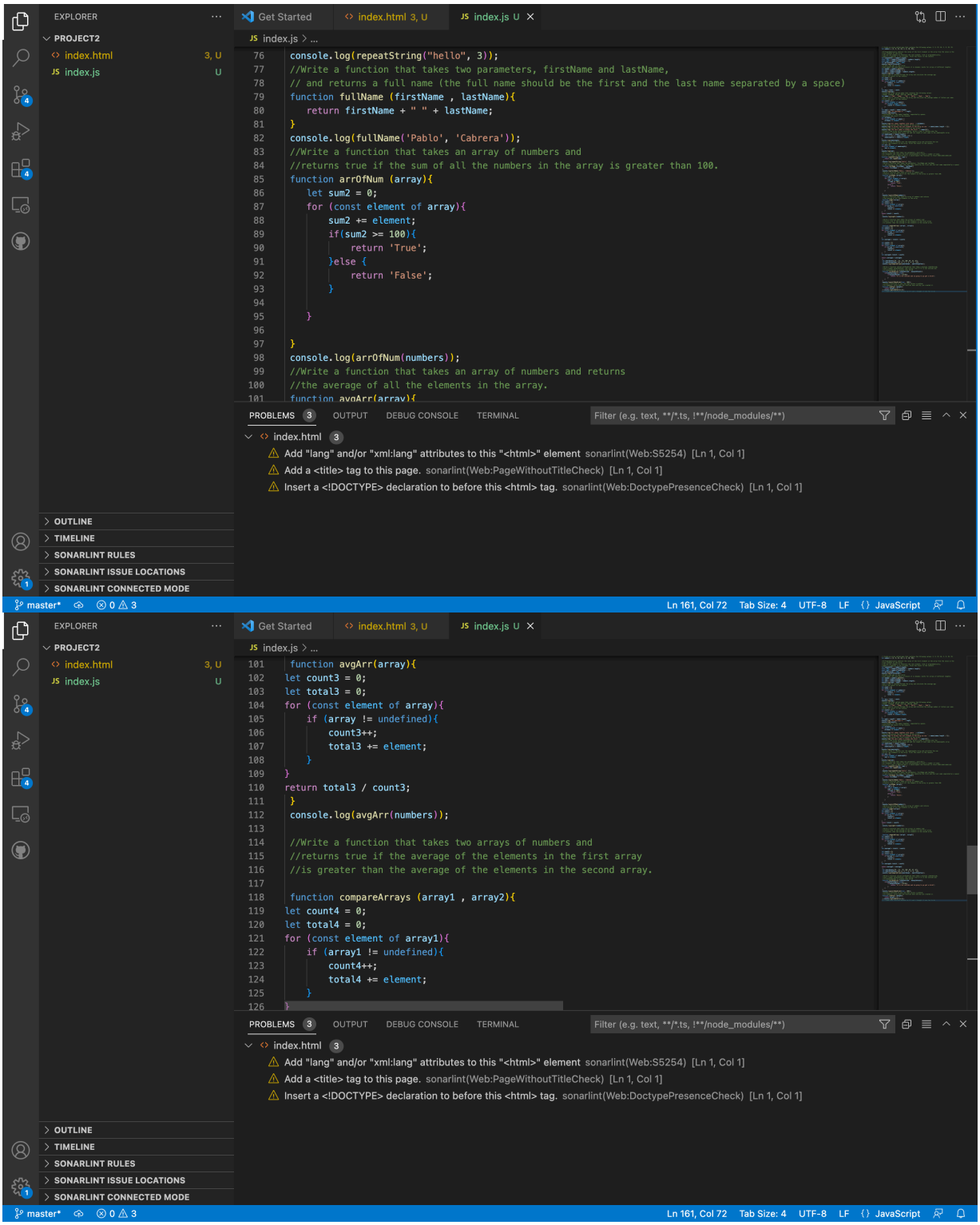
JavaScript


EXPLORER
PROJECT2
index.html 3, U
index.js U
Get Started
index.html 3, U
index.js U
index.js > ...
76 console.log(repeatString("hello", 3));
77 //Write a function that takes two parameters, firstName and lastName,
78 // and returns a full name (the full name should be the first and the last name separated by a space)
79 function fullName (firstName , lastName){
80 return firstName + " " + lastName;
81 }
82 console.log(fullName('Pablo', 'Cabrera'));
83 //Write a function that takes an array of numbers and
84 //returns true if the sum of all the numbers in the array is greater than 100.
85 function arrOfNum (array){
86 let sum2 = 0;
87 for (const element of array){
88 sum2 += element;
89 if(sum2 >= 100){
90 return 'True';
91 }else {
92 return 'False';
93 }
94
95 }
96
97 }
98 console.log(arrOfNum(numbers));
99 //Write a function that takes an array of numbers and returns
100 //the average of all the elements in the array.
101 function avgArr(array){
PROBLEMS 3
OUTPUT
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SONARLINT CONNECTED MODE
master*
0 3
Ln 161, Col 72
Tab Size: 4
UTF-8
LF
JavaScript
EXPLORER
PROJECT2
index.html 3, U
index.js U
Get Started
index.html 3, U
index.js U
index.js > ...
101 function avgArr(array){
102 let count3 = 0;
103 let total3 = 0;
104 for (const element of array){
105 if (array != undefined){
106 count3++;
107 total3 += element;
108 }
109 }
110 return total3 / count3;
111 }
112 console.log(avgArr(numbers));
113
114 //Write a function that takes two arrays of numbers and
115 //returns true if the average of the elements in the first array
116 //is greater than the average of the elements in the second array.
117
118 function compareArrays (array1 , array2){
119 let count4 = 0;
120 let total4 = 0;
121 for (const element of array1){
122 if (array1 != undefined){
123 count4++;
124 total4 += element;
125 }
126 }
PROBLEMS 3
OUTPUT
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TERMINAL
Filter (e.g. text, **/*.ts, !**/node_modules/**)
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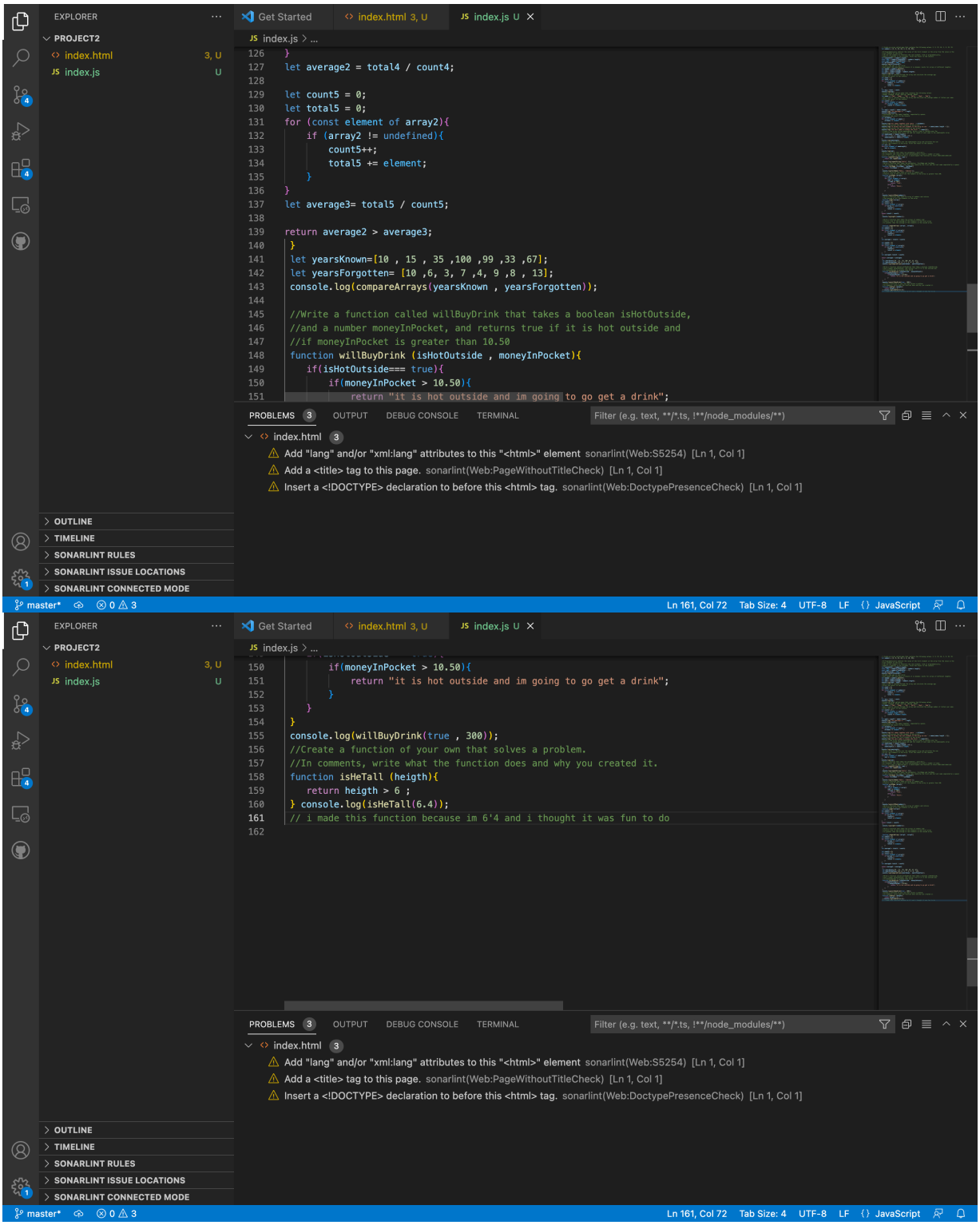
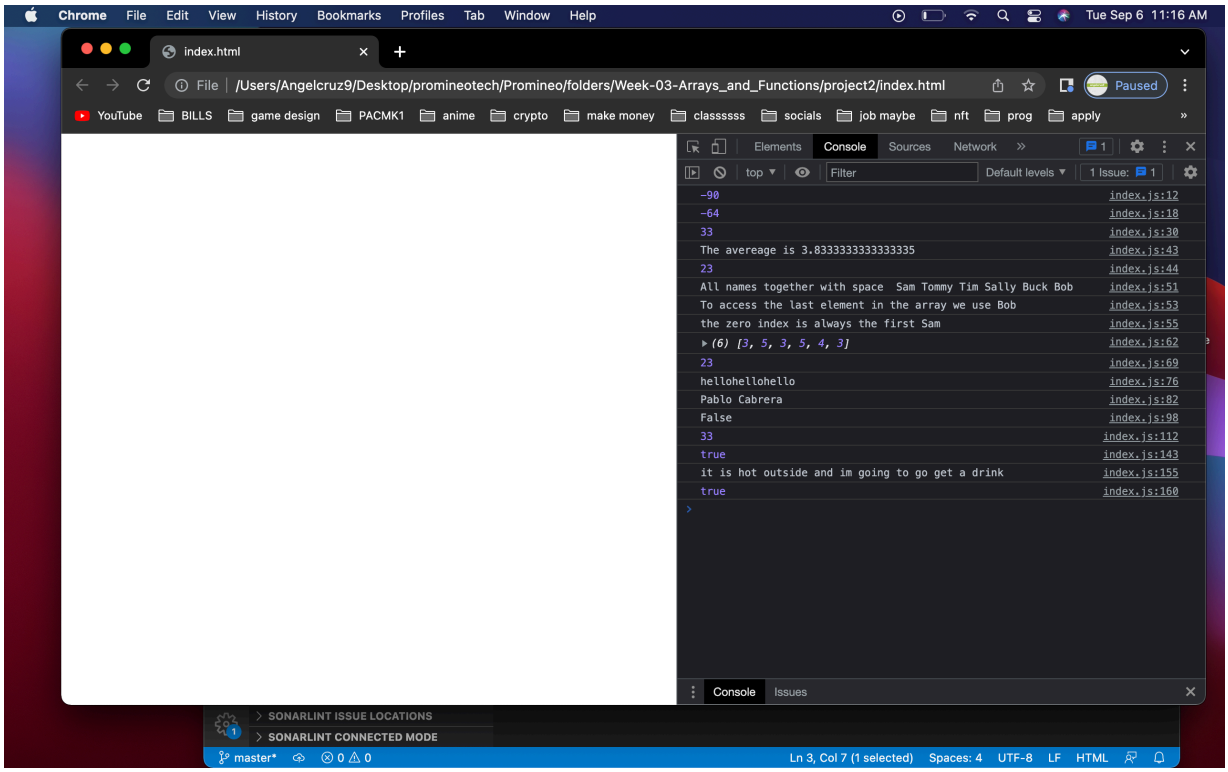
master*
0 3
Ln 161, Col 72
Tab Size: 4
UTF-8
LF
JavaScript



Screenshots of Running Application:


Chrome File Edit View History Bookmarks Profiles Tab Window Help
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index.html
File | /Users/Angelcruz9/Desktop/promineotech/Promineo/folders/Week-03-Arrays_and_Functions/project2/index.html
Paused
YouTube BILLS game design PACMK1 anime crypto make money classssss socials job maybe nft prog apply
Elements Console Sources Network
top Filter Default levels 1 Issue: 1
-90 index.js:12
-64 index.js:18
33 index.js:30
The avereage is 3.8333333333333335 index.js:43
23 index.js:44
All names together with space Sam Tommy Tim Sally Buck Bob index.js:51
To access the last element in the array we use Bob index.js:53
the zero index is always the first Sam index.js:55
(6) [3, 5, 3, 5, 4, 3] index.js:62
23 index.js:69
hellohellohello index.js:76
Pablo Cabrera index.js:82
False index.js:98
33 index.js:112
true index.js:143
it is hot outside and im going to go get a drink index.js:155
true index.js:160
Console Issues
SONARLINT ISSUE LOCATIONS
SONARLINT CONNECTED MODE
master* 0 0
Ln 3, Col 7 (1 selected) Spaces: 4 UTF-8 LF HTML