Intro to JavaScript Week 4 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

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:

1. Using template literals instead of concatenation, write a function that takes firstName and lastName and returns 'fistName lastName'
2. Write the same function as above as an arrow function with a different name.
3. Look up the JavaScript functions setTimeout() and setInterval(). Notice how they each take a callback.

a. Using setTimeout, write an inline, anonymous (has no named assigned to it) arrow function in the callback parameter position. The function should alert 'Time is up!'. Choose whatever length of time you want for the timeout.

b. Write an arrow function named askAreWeThereYet that alerts 'Are we there yet?'. Using setInterval, pass askAreWeThereYet into the callback parameter position. Choose whatever length of time you want for the interval.

4. In this step you are going to write a function that takes a callback to better understand how callbacks work.

    a. Write a function named processSplicedValue that takes 3 parameters – an array, the index of the element to be spliced from the array, and a callback that will process the sliced element.

    b. Inside the function, use the first two parameters to splice an element from the array.

    c. Call the callback function and pass the spliced value into it.

    d. Outside of your function, create an array of strings, call processSplicedValue, and pass the array, an index number, and console.log into it. For example: processSplicedValue(arrayName, 2, console.log);

    e. Call the processSplicedValue function again but this time pass in the alert method instead of console.log.

    f. Call the processSplicedValue function again, but this time pass in an anonymous arrow function that alerts the spliced value.

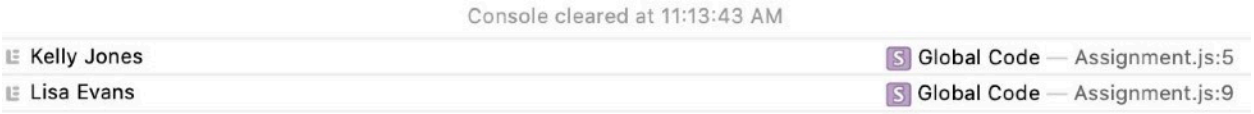
    g. Call the processSplicedValue function one more time, but this time, pass in a custom function of your choice that you should create and name.

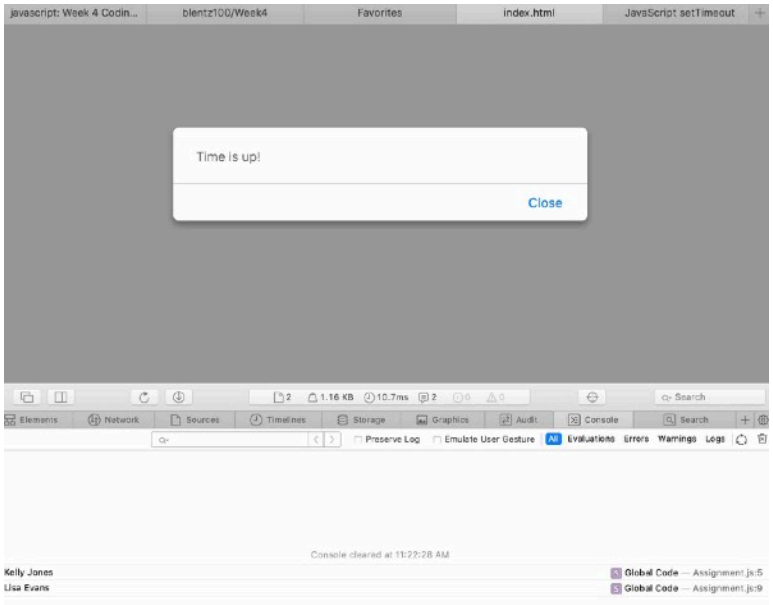
Screenshots of Code:

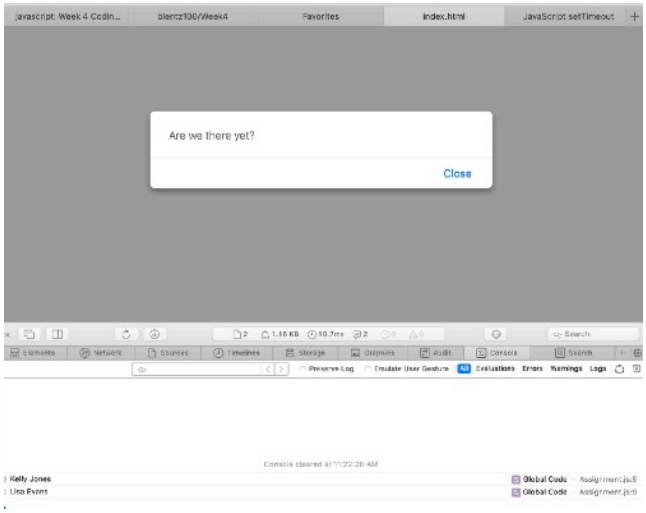
PROMINEO TECH

```
// 1. Using Temp. Lit to join two strings
function createFullName(firstName, lastName){
        return `${firstName} ${lastName}`;
}
console.log("1. " + createFullName("Kelly", "Jones"));

// 2. Same as 1, but using arrow function
let createFullName2 = (firstName, lastName) => `${firstName} ${lastName}`;
console.log("2. " + createFullName2('Lisa', 'Evans'));

// 3a. setTimeoutFunction
setTimeout(function(){alert('Time is up!')},1000);

// 3b. use setInterval, pass askAreWeThereYet into the callback param. pos.
let askAreWeThereYet = () => alert('Are we there yet?');
setInterval(askAreWeThereYet, 2500);

// 4a,4b,4c. Callbacks

function processSplicedValue(array, index, callback){
        value = array.splice(index, 1);
        callback(value);
}

// 4d.
let colorsArray = ['red', 'green', 'blue', 'yellow', 'orange', 'red', 'purple'];
console.log("\n4d. console output ");
processSplicedValue(colorsArray, 2, console.log );

// 4e.
console.log("\n4e. alert output");
processSplicedValue(colorsArray, 2, alert );

//4f.
console.log("\n4f. alert output)");
processSplicedValue(colorsArray, 2, (value) => {alert(value)});

//4g.
console.log("\n4g. console output");
let capitalizeValue = (value) => { console.log (value.toString().toUpperCase())};
processSplicedValue(colorsArray, 2, capitalizeValue);
```

Screenshots of Running Application:

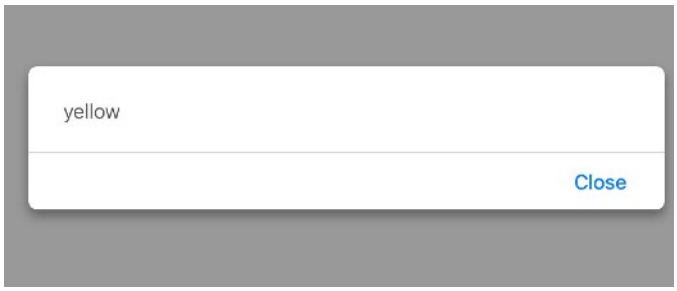


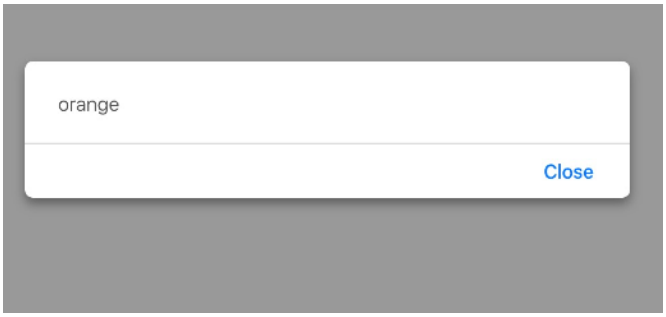




PROMINEO TECH

```
4d.                                                    Global Code — Assignment.js:27
["blue"] (1)                                           processSpliced... — Assignment.js:22
```






```
RED                                                    capitalizeValue — Assignment.js:39
```

>

URL to GitHub Repository: https://github.com/blentz100/Week4