**Overview**

The objective of this lab is to give you practice using:

**Part 1: Exercises**

**Part 2: Web Apps**

I. A web page for calculating an average

Create a web page that a person can use to calculate the average of four values.

Here is an example of what the page might look like when you first open it:

1. Create a .js file and put the function you wrote in part 1 for calculating averages in it.
2. Modify the function for calculating averages so that it will calculate the average of four values.
3. Create a web page and add code to the head element so that this page can use your js file.
4. Add HTML code to the web page to:
   1. Give the page a title and a heading.
   2. Provide some brief instructions to the user.
   3. Get four values to be averaged using JavaScript prompts.
   4. Call the function to calculate the average and display the average on the web page.

*Implementation notes:*

* Use prompts to get the user’s input.
* Use parseFloat() to convert the values from the prompts to numbers.
* Use getElementById and innerHTML to show the result on the web page.

A multiple-choice quiz web page

Create a web page that presents seven multiple-choice questions on any topic you choose. An example topic might be actors. You could ask questions like, who played the character of \_\_\_\_\_\_\_\_\_\_\_ in the movie \_\_\_\_\_\_\_\_\_\_\_\_?

Your web page could look something like this after you’ve answered the first question and the second dialog has popped up:

1. Create a .js file, and in it write a function that:
   1. Has two parameters
      1. The user’s answer (a, b, or c).
      2. The right answer.
   2. Checks to see if the answer is right.
   3. Returns ether the word “right” or the word “wrong”.
2. Create a web page with seven questions, each with three choices for an answer.
3. Add one or more script elements to the body of the page that:
   1. Use JavaScript prompts to ask the user for an answer
   2. Calls the function you wrote.
   3. Put the right answer, and “right” or “wrong”, in an HTML element under the question on the web page.

**Submitting your lab work on Moodle**

There is no beta version or code review from a lab partner required for this lab assignment.

Production Version  
You may revise your beta version before submitting the production version. On the code review form you received from your lab partner, complete the “Production” column to show what you did or did not revise.

Upload the following to the *Lab Production Version* assignment:

1. A zip file containing the two files (.html and .js) for part 1.
2. A zip file containing the four files for part 2.
3. A code review of your own code.