

## Lab 2 Instructions for Group B-JavaScript Functions

CS 133JS, Beginning Programming: JavaScript

### Overview

The objective of this lab is to give you practice:

- Writing functions
- Calling functions
- Linking to a JavaScript file
- Interacting with HTML elements

### Part 1: Exercises

- Do the exercises listed on the Basic Function Exercises page.
- Don't clear the console keep everything.
- When you are done, copy the contents of the console by right-clicking on one of the lines of code, clicking on "select all" and then copying everything to the clipboard. Next, paste the code into a Word document with your name, lab number and date at the top.

### Part 2: Web Pages

For part 2, you will create two web pages.

#### A web page for calculating cost per mile

Create a web page that a person can use to calculate the cost of gas per mile driven.

1. Create a .js file and put the function you wrote in part 1 for calculating mpg in it.
2. Modify the function for calculating mpg so that it will calculate the cost per mile. You will need to add a third parameter for the price of a gallon of gas. The formula for the calculation will be:  
*costPerMile = pricePerGallon \* gallons / miles*
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:
  - a. Give the page a title and a heading.
  - b. Provide some brief instructions to the user.
  - c. Get the input values to be passed to the function using JavaScript prompts.
  - d. Call the function to calculate the cost per mile and display it on the web page.

#### A true-false quiz web page

Create a web page that presents seven true or false questions on any topic you choose. An example topic might be musicians. You could ask questions like, did \_\_\_\_\_ sing the song \_\_\_\_\_ ?

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1. Create a .js file, and in it write a function that:
  - a. Has two parameters
    - i. The user's answer (true or false).
    - ii. The right answer.
  - b. Checks to see if the answer is right.
  - c. Returns either the word "right" or the word "wrong".
2. Create a web page with seven questions.
3. Add a script block that prompts the user for an answer and calls the function you wrote. The result, "right" or "wrong", and the right answer, will be displayed on the web page under the appropriate question.

### Submitting your lab work on Moodle

#### Beta Version

Post the following in the *Lab Beta forum*:

1. The web pages you created for part 2.  
(Zip the files for your web pages and attach them to the post.)
2. A code review of your lab partner's web page for part 2.  
(Review one of your lab partners' web pages using the Code Review Form provided.)

#### Code Review

1. Submit a copy of the code review above to the *Lab Code Review assignment*.

#### Production Version

Based on the review and helpful advice from your lab partner, you may revise your web page. On the code review from your lab partner, complete the "Production" column to show what you revised. Upload the following to the *Lab Production Version* assignment:

1. The Word document containing all the code you ran for part 1.
2. The web pages you created for part 2.
3. The code review from your lab partner with the "Prod" column filled in by you.