Lab 3 – Simple JavaScript added to Lab 1

Introduction

In this lab you will be adding some simple JavaScript behaviors to your HTML/CSS file from Lab 1. This will enable the buttons to work and calculate the tax and total for you.

Requirements

- Use Lab 1 as a starting point for this lab.
- Add a <script> tag section at the end of body section in your HTML page for your JavaScript. In this assignment I want embedded JavaScript in the HTML file. All the JavaScript for this lab should be in that one script section.
- In this lab you will need to create three event handlers (functions). One will be for the calculate button, one will be for the clear button, and one will setup and bind the event handlers to the buttons when the page loads.
- Define an event handler function that will be connected to the calculate button. This is where you should do all your calculations and then put the results in the sales tax and total fields. You will also need to do some basic validation on the data in the subtotal and tax rate fields, see bullet below.
- Define an event handler function that will be connected to the clear button. In this function you should clear out all the fields and then put the cursor back in the subtotal field so it is ready for new input. Look into how to set focus on a form element.
- Define an event handler function that will be used to initialize or setup the app. This event handler only needs code to bind the other two event listeners to the buttons. In this function add event listeners, for click events, to the two buttons and call the correct event handler function for each.
- Add an event listener to the window object to listen for the load event and call you
 initialize/setup event handler function. This way when the page loads that will trigger
 JavaScript to setup the other two buttons click handlers.
- Add basic validation to the input from the subtotal and tax rate field. Display any errors
 with validation in an alert box. Make sure the message in the alert box is clear and tells
 the user what is wrong with their input. If you want to go further you may do in page
 error messages with text/css changes to tell the user what their error is instead of an
 alert box.
- Basic validation
 - The subtotal value needs to be a valid positive number.
 x > 0
 - The tax rate value must be a number greater than 0 and less than or equal to 20. $0 < x \le 20$
- Your file should be named YourIITUsername_lab3.html

Graduate Additional Requirements

If you are involved in **any section of 565** you need to complete the additional requirements listed here.

No additional requirements.

README File

Not Required for this Lab

Due Date / Late Policy

This assignment is due **Wednesday February 26, 2019 6:25 PM Chicago Time**. We will discuss this in class on February 26 so **no assignments will be accepted as of class (6:30pm) that night**. **No Extensions or Exceptions**.

Submission Guidelines

You must upload your submission, to the blackboard assignment by the due date. The submission must be in the following format and structure. If you do not submit your assignment exactly as specified, you will receive an immediate 10% deduction.

Submission Format Specification:

YourIITUsername lab3.zip

Zip your .html file and any other assets before submitting to blackboard. Blackboard will not allow you to upload certain file types. Your zip should be named YourIITUsername_lab3.zip and the file inside it should be named YourIITUsername_lab3.html and any other assets needed. All files needed to open the assignment should be included in the zip and referenced using relative paths.