APSU Coding Camp #A: Assignment 3

Total estimated time for this assignment: 10 hours

When you see "Richard Ricardo" in the example screen captures, change it to **<your name>**. (0 points if not) When you see "Richard" in the example screen captures, change it to **<your first name>**. (0 points if not) If you do not put **<your name>** / **<your first name>** in the above mentioned fields, you will get **0 points** for the question(s).

No two students should submit webpages with exactly the same code, or same content, or same layout, or same color combination. If found, **both** students will get **0 points**.

Create a folder on your hard disk, name the folder **lastname_firstname_assignment3**. Save all the files from this assignment in this folder.

Create the following subfolders (in the folder lastname_firstname_assignment3): **q1**, **q2**, **q3**, **q4**, **q5**. As a result, you should have the following folder (directory) structure for this assignment: (-2 points if wrong)

- lastname firstname assignment3\q1\
- lastname firstname assignment3\q2\
- lastname firstname assignment3\q3\
- lastname firstname assignment3\q4\
- lastname firstname assignment3\q5\

Use Firefox **Web Console** (Tools > Web Developer > Web Console) to help debugging JavaScript. All html (JavaScript) files must pass JavaScript validation at Firefox Web Console without any error, without any warning **(-2 points for each error, each warning)**.

- Turn on your Firefox Menu Bar (Hint: right-click).
- Make sure your Firefox is up to date (Help > About Firefox).
- Turn on Web Console when you code (Tools > Web Developer > Web Console).
- Fix any error/warning immediately when you see them. Do NOT accumulate errors.

When you view page source in a web browser, <!DOCTYPE html> must be at the top of every page. In other words, all pages must be written in HTML5. (-20 points if not)

Question 1 – JavaScript Chapter 1 (20 points)

- Save question 1 files in subfolder "lastname_firstname_assignment3\q1\". (-15 points if no JavaScript)
- Create a web page that displays the default information (example shown) about **your favorite soccer team**. If you do not have a favorite soccer team, choose one now. (1 point)
- The initial page should look like the one shown below. (1 point each, total 3 points)
- **Prompt** the user to **enter the information**, and use that to replace the defaults. input as shown: (1 point each, total 5 points)
- Create your page using "<your name>'s Favorite Soccer Team Page" as the page title. Save the page as index.htm. Remember to document the html file with html comments. (1 point each, total 3 points)

Estimated time: 2 hours

Create a css file named style.css to format index.htm by creating your own layout (no two students should have the same layout). Use css comments to document the css program. You can use the same (or similar) css file(s) to format all questions.
 (1 point each, total 2 points)

Example: Initial Page



Example: Input









Example: Output



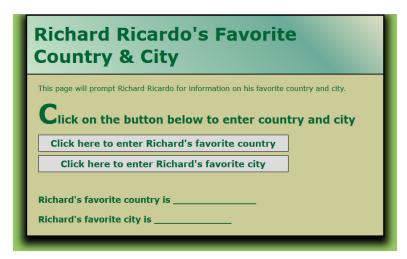
Question 2 – JavaScript Chapter 1 (20 points)

Estimated time: 2 hours

- Save question 2 files in subfolder "lastname_firstname_assignment3\q2\". (-15 points if no JavaScript)
- Create a web page that contains two buttons (heading tags with border) as shown. (2 points each, total 4)
- When the first one is clicked, the user will be prompted to enter his/her favorite country's name. (1 point)
- When the second one is clicked, the user will be prompted to enter his/her favorite city's name. (1 point)
- The page will then be **updated** as shown.

- (2 points each, total 4 points)
- Create your page using "<your name>'s Favorite Country and City" as the page title. Save the page as index.htm. Remember to document the html file with html comments. (1 point each, total 3 points)
- Create a css file named **style.css** to format index.htm by creating your own layout (no two students should have the same layout). Use css comments to document the css program. (1 point each, total 2 points)

Example: Initial Page



Example: Input





Example: Output



Question 3 – JavaScript Chapter 2 (20 points)

Estimated time: 2 hours

- Save question 3 files in subfolder "lastname firstname assignment3\q3\". (-15 points if no JavaScript)
- Create a web page that allows a user to create a **dance studio name** as shown. (1 point each, total 3 points)
- The use should be prompted to enter his or her **first name**, **last name**, and the **studio's name**. (1 point each, total 3 points)
- The program should create a dance studio name that consists of the user's **initials** concatenated with the **school name**, plus "**Studio**", as shown. (1 point each, total 3 points)
- The page will then be **updated** as shown.
- Create your page using "<your name>'s Dance Studio Name" as the page title. Save the page as index.htm. Remember to document the html file with html comments. (1 point each, total 3 points)
- Create a css file named **style.css** to format index.htm by creating your own layout (no two students should have the same layout). Use css comments to document the css program. (1 point each, total 2 points)

Richard Ricardo's Dance Studio
Name

This page will prompt Richard Ricardo for information and create the name for his dance studio.

Click on the button below to enter names: e.g.

• First name = James
• Last name = Smith
• School name = Pretty

Username would be: JSPretty Studio

Enter Names

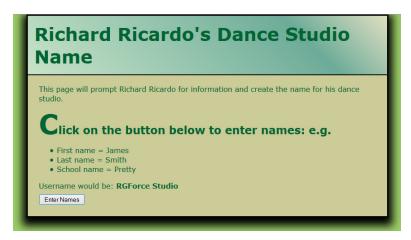
Example: Input





(1 point)

Example: Output



Question 4 – JavaScript Chapter 2 (20 points)

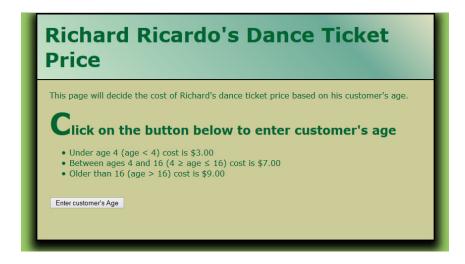
Estimated time: 2 hours

- Save question 4 files in subfolder "lastname_firstname_assignment3\q4\". (-15 points if no JavaScript)
- Create a web page that displays the cost of a dance ticket as shown. (1 point each, total 2 points)
- The use should be prompted to enter his or her age.

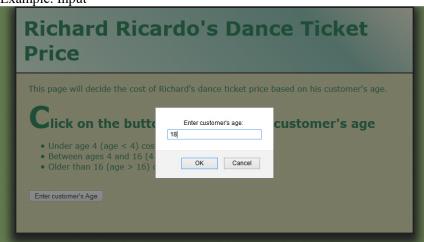
(1 point)

- The output should be a message telling the user what the customer's soccer ticket will cost, based on the following criteria:
 - \circ Under age 4 (age < 4), cost is \$3 (2 points)
 - o Between ages 4 and 16, cost is \$7 (2 points)
 - Older than 16 (age > 16), cost is \$9 (2 points)
- The page will then be **updated** as shown. (2 points)
- Create your page using "<your name>'s Dance Ticket Price" as the page title. Save the page as index.htm. Remember to document the html file with html comments. (1 point each, total 3 points)
- Create a css file named **style.css** to format index.htm by creating your own layout (no two students should have the same layout). Use css comments to document the css program. (1 point each, total 2 points)

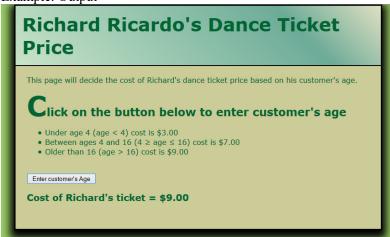
Example: Initial Page



Example: Input



Example: Output

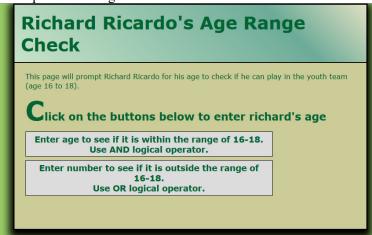


Question 5 – JavaScript Chapter 2 (20 points)

Estimated time: 3 hours

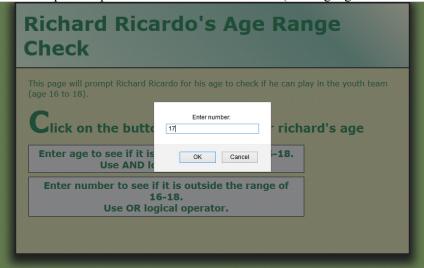
- Save question 5 files in subfolder "lastname_firstname_assignment3\q5\". (-15 points if no JavaScript)
- Create a web page that contains **two buttons (heading tags with border)** as shown. (2 points each, total 4)
- The web page should check to see if the user enters an age within a given age range.
- The user should be prompted to enter his or her age. (1 point)
- Write a program that uses two different functions/methods to test if an input is between 16 and 18 (including 16 and 18). (1 point for each function total 2)
- One function/method must use the AND operator (&&). (3 points)
- One function/method must use the OR operator (||). (3 points)
- The web page should display the two equivalent expressions.
- The results will then be **displayed** as shown. (1 point)
- Create your page using "**<your name>**'s Age Range Check" as the page title. Save the page as **index.htm**. Remember to document the html file with html comments. (1 point each, total 3 points)
- Create a css file named **style.css** to format index.htm by creating your own layout (no two students should have the same layout). Use css comments to document the css program. (1 point each, total 2 points)

Example: Initial Page



Example: Input

Note: Required input is the **same** for both buttons (heading tags with border)

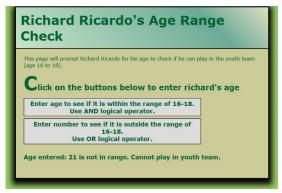


Example: Output

Note: Output is the **same** for both buttons (heading tags with border), the difference is one function uses AND, one function uses OR, to check the range.



If user enters 17, output is shown above.



If user enters 21, output is shown above.

Important:

1. If you do not put **<your name>** / **<your first name>** in the above mentioned fields (as shown in the examples), you will get **0 points** for the question(s).

- 2. **No two students** should submit webpages with exactly the same code, or same content, or same layout, or same color combination. If found, both students will get **0 points**.
- 3. When you view page source in a web browser, <!DOCTYPE html> must be at the top of every page. In other words, all pages must be written in HTML5. (-20 points if not)
- 4. All html files must pass html validation at http://validator.w3.org/ without any error/warning (with only 2 warnings). Use the validator's "File Upload" tab to check each file. (-2 points for each error/warning, 2 warnings allowed)
- 5. All css files must pass css validation at http://jigsaw.w3.org/css-validator/ without any error/warning. (-2 points for each error/warning)
- 6. All html (JavaScript) files must pass JavaScript validation at Firefox **Web Console** (Tools > Web Developer > Web Console) without any **error**, without any **warning**. **(-2 points** for each error/warning)
- 7. If your html file contains any css component, your html file must pass both html validation (3 above), and css validation (4 above) without any error.
- 8. If your files do not pass the validations, 2 points will be deducted for each error / warning found.
- 9. Document (comment) your html files (<!--->), css files (/* */), and JavaScript files (/* */). (-1 point for each file with insufficient comments)

Submission instructions:

- You need to test the above document(s) in your web browser.
- Do screen capture(s) of the **initial page** and the related **output(s)**. Use any graphic editing software (e.g. Microsoft Paint, Adobe Fireworks, GIMP, or Microsoft Expression Design etc) to cut out the browser output (from the screen capture), paste them into a word document.
- For this assignment, you only need to do screen capture(s) of the initial page and the related output(s), you do not need to do screen capture(s) of the input pages. Provide 2 different test cases for each question. In other words, for each question, you need to have 1 initial page screen capture and 2 related output(s) screen captures. (-50 points for no test cases, -5 points for only 1 test case)
- Do screen capture(s) of html validation results and css validation results, cut and paste them into the word document. You do not need to do screen capture(s) of JavaScript validation results.
- Save the word document as a pdf file.

You need to submit the following:

1. A pdf file containing the screen capture(s) of the web browser output (all html pages) and the screen capture(s) of all html validation results and css validation results, name the file

lastname_firstname_assignment03.pdf.

- 2. All html file(s), css file(s), and other related files (e.g. image files). Zip your file folder (lastname_firstname_assignment3) into a single zip file (or rar file) **lastname_firstname_assignment03.zip**. In the above example, the zip file should contain the following files and subfolders. If there is any image, there should be a \images\ subfolder.
 - lastname firstname assignment3\q1\index.htm
 - lastname firstname assignment3\q1\style.css
 - lastname firstname assignment3\q2\index.htm
 - lastname firstname assignment3\q2\style.css
 - lastname firstname assignment3\q3\index.htm
 - lastname firstname assignment3\q3\style.css
 - lastname_firstname_assignment3\q4\index.htm
 - lastname firstname assignment3\q4\style.css
 - lastname_firstname_assignment3\q5\index.htm
 - lastname firstname assignment3\q5\style.css

Please show the above mentioned **two files**: .pdf and .zip to your camp instructor.

// you may put style.css in a subfolder