CSCI 4000 Assignment 1

Total estimated time for this assignment: 9 hours (if you are a good programmer)

The main programming language for this assignment should be **PHP** (mixed with HTML and CSS). If you do not use **PHP**, you will get **0 points**.

When you see "Richard Ricardo" in the example screen captures, change it to **<your name>**. When you see "Richard" in the example screen captures, change it to **<your first name>**. 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, content, layout, or color combination. If found, both students will get 0 points.

Create a folder on your hard disk, name the folder **lastname_firstname_assignment1**. Save all the files from this assignment in this folder.

Create the following subfolders (in the folder **lastname_firstname_assignment1**): **q1**, **q2**, **q3**. As a result, you should have the following folder (directory) structure for this assignment:

- lastname_firstname_assignment1\q1\
- lastname firstname assignment $1\q2$
- lastname firstname assignment $1\q3$

Use XAMPP web server solution stack package to help debugging PHP code. It will make your debugging process easier. All php files must not produce any error, or any warning (-2 points for each error, each warning). Your program must run. A program that does not run will get at most 50% of the possible points. All files must begin with a comment that identifies the author, the course code, and the program date (- 2 points each question if found missing). All html, css and php files must be clearly documented (commented). Points will be taken off (-2 points each question) for insufficient comments (<!-->, /* */, //).

- Before adding PHP code, all html files must pass html validation at <u>http://validator.w3.org/</u> without any error (and with only 1 warning).
- 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)
 - You can put php code before <! DOCTYPE html>.
 - You cannot put html code before <! DOCTYPE html>.
- All css files must pass css validation at <u>http://jigsaw.w3.org/css-validator/</u> without any **error**. (-2 points for each error/warning, only 1 warning is allowed for html validator)

Estimated time: 3 hours

Question 1 – PHP Chapter 2 (33 points)

- Save the files in subfolder "lastname_firstname_assignment1\q1\". (1 point)
- Create a web page to capture information about your vehicle.
- The initial page should look like the one shown below. (3 points)
- Allow the user to enter the information to the five textboxes. (5 points)
- Create your pages using "<your name>'s Vehicle Page" as the page titles (<title> tag). (2 points)
- Save the first page as **index.htm** (2 points). Use a HTML form to capture user input. Submit the form to a second file **index_process.php** using the **POST Method**. (5 points)
- The second page **index_process.php** will then be **updated** as shown. It contains a link to go back to the first page. (10 points)
- Create a css file named **style.css** to format all pages by creating your own layout (no two students should have the same layout). You can use **the same (or similar) css file(s)** to format all questions. (5 points)

Example: Test case 1 input

This page will prompt Ric	hard Ricardo for information	n on his dream ve	ehicle.		
Click on the butto	n below to enter nev	w informatio			
Vehicle Type:	Sedan				
Color:	Orange				
Year:	2012				
Make:	Ford				
Model:	Focus				

Example: Test case 1 output

localitose my_php/nearao_n	chard_assignment1/q1/index_proc	🧯 C 🔍 Sea	in chi	☆自	-	•		2
Richard	Ricardo's	Vehi	cle					
	inical do b							
This page displa	ays the information of	Richard R	icardo'	s drea	m ve	ehia	de.	
This page displa	ays the information of	Richard R	icardo':	s drea	m vo	ehio	cle.	
Vehicle Type:	ays the information of Sedan	Richard R	icardo's	s drea	m vo	ehio	de.	
		Richard R	icardo':	s drea	m vo	ehio	de.	
Vehicle Type:		Richard R	icardo':	s drea	m vo	ehio	cle.	
Vehicle Type:Color:	• Sedan Orange	Richard R	icardo':	s drea	m ve	ehic	de.	

Example: Test case 2 input

Richard R	assignment1/q1/	a search	☆自	+ 1	Q 1	
	chard Ricardo for information or n below to enter new i					
Vehicle Type:	Sports Car					
Color:	Red					
Year:	2013					
Make:	Lamborghini					
Model:	Aventador LP 720-4					
submit						

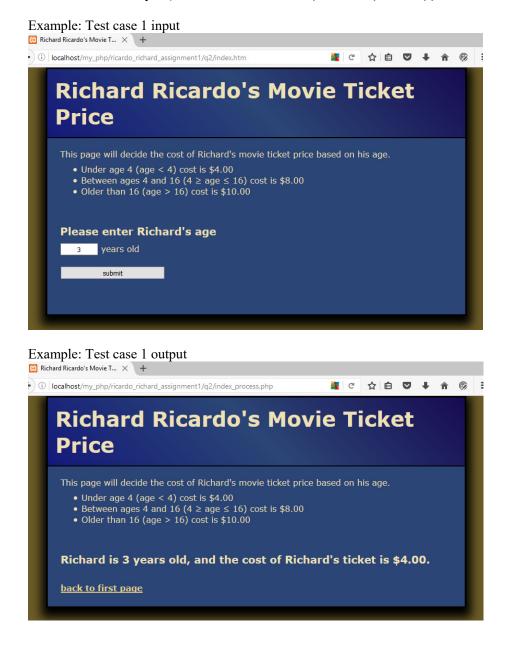
Example: Test case 2 output

Richard	Ricardo's Vehic	le
This page displa	ays the information of Richard Ric	ardo's dream vehicle.
 Vehicle Type: Color: 	Sports Car Red	
	2013	
	Lamborghini	
• Model:	Aventador LP 720-4	

Estimated time: 3 hours

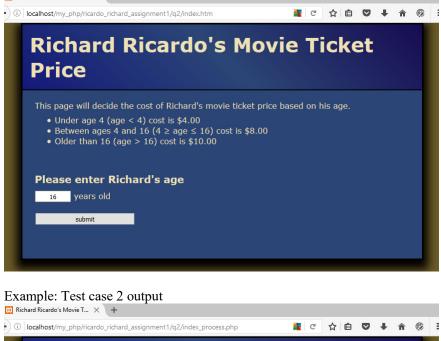
Question 2 – PHP Chapter 2 & 8 (33 points)

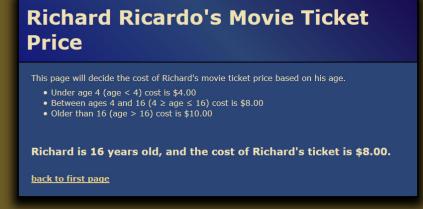
- Save the files in subfolder "lastname_firstname_assignment1\q2\". (1 point)
- Create web page(s) that displays the cost of a movie ticket as shown. (4 points)
- Allow user to enter his or her **age**. (2 points)
- The output should be a message telling the user what the customer's movie ticket will cost, based on the criteria show on screen captures below: (12 points for logic)
- Create your pages using "<your name>'s Movie Ticket Price" as the page titles (<title> tag). (4 points)
- Save the first page as **index.htm**. Use an HTML form to capture user input. Submit the form to a second file **index_process.php** using the **GET method**. (5 points)
- The second page **index_process.php** will then be **updated** as shown. It contains a link to go back to the first page. (5 points)
- Create a css file named **style.css** to format all pages by creating your own layout (no two students should have the same layout). You can use **the same (or similar) css file(s)** to format all questions. (5 points)



Example: Test case 2 input

🛿 Richard Ricardo's Movie T... 🗙 🕂





Question 3 – PHP Chapter 2 & 8 (34 points)

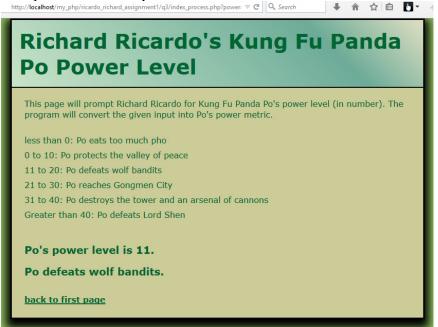
Estimated time: 3 hours

- Save the files in subfolder "lastname_firstname_assignment1\q3\". (1 point)
- Create a web page that displays the default information (example shown).
- The initial page and related outputs should look like the examples shown below. It contains a link to go back to the first page. (4 points)
- Create your pages using "<your name>'s Kung Fu Panda Po Power Level" as the page titles (<title> tag). (4 points)
- Allow the user to **enter a number** representing Kung Fu Panda Po's power level (2 points).
- The power level conversions are as follows: (12 points for logic)
 - less than 0: Po eats too much pho
 - 0 to 10: Po protects the valley of peace
 - 11 to 20: Po defeats wolf bandits
 - o 21 to 30: Po reaches Gongmen City
 - 31 to 40: Po destroys the tower and an arsenal of cannons
 - Greater than 40: Po defeats Lord Shen

- Save the first page as **index.htm**. Use a HTML form to capture user input. Submit the form to a second file **index process.php** using the **POST method**. (5 points)
- The second page **index_process.php** will then be **updated** as shown. It contains a link to go back to the first page. (5 points)
- Create a css file named **style.css** to format all pages by creating your own layout (no two students should have the same layout). You can use **the same (or similar) css file(s)** to format all questions. (5 points)

Example: Test case 1 input http://localhost/my_php/ricardo_richard_assignment1/q3/ v C Q Search A A A A A
Richard Ricardo's Kung Fu Panda Po Power Level
This page will prompt Richard Ricardo for Kung Fu Panda Po's power level (in number). The program will convert the given input into Po's power metric.
less than 0: Po eats too much pho
0 to 10: Po protects the valley of peace
11 to 20: Po defeats wolf bandits
21 to 30: Po reaches Gongmen City
31 to 40: Po destroys the tower and an arsenal of cannons
Greater than 40: Po defeats Lord Shen
Click on the button below to submit Po's power level.
Po's power level: 11
submit

Example: Test case 1 output



Example: Test case 2 input

nttp://localhost/my_php/ricardo_richard_assignment1/q3/index.htm 🔍 🥙 🔍 Search 🛛 🖡 🏫 🏚 🗈
Richard Ricardo's Kung Fu Panda Po Power Level
This page will prompt Richard Ricardo for Kung Fu Panda Po's power level (in number). The program will convert the given input into Po's power metric.
less than 0: Po eats too much pho
0 to 10: Po protects the valley of peace
11 to 20: Po defeats wolf bandits
21 to 30: Po reaches Gongmen City
31 to 40: Po destroys the tower and an arsenal of cannons Greater than 40: Po defeats Lord Shen
Greater than 40: Po deleats Lord Sheh
Click on the button below to submit Po's power level.
Po's power level: 45
submit

Example: Test case 2 output

http://localhost/my_php/ricardo_richard_assignment1/q3/index_process.php?power: 🤍 😋 🔍 Search 🛛 🕴 🏠 📋 🚺 🔪 🧃

Richard Ricardo's Kung Fu Panda Po Power Level

This page will prompt Richard Ricardo for Kung Fu Panda Po's power level (in number). The program will convert the given input into Po's power metric.

less than 0: Po eats too much pho

0 to 10: Po protects the valley of peace

11 to 20: Po defeats wolf bandits

21 to 30: Po reaches Gongmen City

31 to 40: Po destroys the tower and an arsenal of cannons

Greater than 40: Po defeats Lord Shen

Po's power level is 45.

Po defeats Lord Shen.

back to first page

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, content, layout, or color combination. If found, both students will get **0** points.
- 3. Before adding PHP code, all html files must pass html validation at <u>http://validator.w3.org/</u> without any **error** (and with only 1 warning). Use the validator's "File Upload" tab to check each file.
 - a. index.htm file must be validated.
 - b. 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)
 - c. You don't need to validate index_process.php after adding php code. If any html error is found, 2 points will be deducted for each error. Please validate the file before adding PHP code.
- 4. All css files must pass css validation at <u>http://jigsaw.w3.org/css-validator/</u> without any error.
- 5. If your files do not pass the html and css validations, **2 points will be deducted** for **each html or css error** found (no deduction for php error at html validation).
- 6. Document (comment) your HTML files (<!-- -->), CSS files (/* */), and PHP files (/* */ OR //). Points will be taken off for insufficient comments (<!-- -->, /* */, //).

Submission instructions:

- You need to test all document(s).
- Do screen capture(s) of the **input** and the related **output(s)**. Use any graphic editing software (e.g. Microsoft Paint, Adobe Photoshop, or GIMP etc) to cut out the browser output (from the screen capture), paste them into a word document.
- Provide 2 different test cases for each question. In other words, for each question, you may need to have 2 input screen captures and 2 related output screen captures.
- Do screen capture(s) of html validation results (index.htm files only) and css validation results (style.css file only), cut and paste them into the word document. If you use the same style.css file, you only need to do screen capture of one style.css file.
- 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 input and output pages, and the screen capture(s) of all html validation results (from <u>http://validator.w3.org/</u>) and css validation results (from <u>http://jigsaw.w3.org/css-validator/</u>), name the file **lastname_firstname_assignment1.pdf**.

2. All html file(s), php file(s), css file(s), and other related files (e.g. image files). Zip your file folder (lastname_firstname_assignment1) into a single zip file (or rar file) lastname_firstname_assignment1.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 assignment1\q1\index.htm
- lastname firstname assignment1\q1\index process.php
- lastname_firstname_assignment1\q1\style.css // you may put style.css in a subfolder
- lastname_firstname_assignment1\q2\index.htm
- lastname firstname assignment1\q2\index process.php
- lastname firstname assignment1\q2\style.css
- lastname firstname assignment1\q3\index.htm
- lastname firstname assignment1\q3\index process.php
- lastname firstname assignment1\q3\style.css

Please submit the above mentioned two files (.pdf and .zip) to D2L digital dropbox.

Grading guidelines (programming questions):

Your programs will be judged on several criteria, which are shown below.

- Correctness (50%): Does the program compile (run) correctly? Does the program do what it's supposed to do?
- Design (20%): Are operations broken down in a reasonable way (e.g. classes and methods)?
- Style (10%): Is the program indented properly? Do variables have meaningful names?
- Robustness (10%): Does the program handle erroneous or unexpected input gracefully?
- Documentation (10%): Do all program files begin with a **comment** that identifies the author, the course code, and the program date? Are all the classes, methods and data fields clearly **documented** (commented)? Are unclear parts of code **documented** (commented)? (Some items mentioned may not apply to some languages)

A program that does not compile (run) will get at most 50% of the possible points.