

CSCI 4000 Assignment 3

Q1: **SquareJS** [25 points] - JavaScript

Write a JavaScript web page (program) that asks the user for a positive integer no greater than 15. The program should display a square on the screen using the character 'X'. The number entered by the user will be the length of each side of the square. For example, if the user enters 5, the program should display the following:

```
XXXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX
```

Note: For this question, name your file `<my name>SquareJS.htm` (or `.xht`). For example, my file would be named: `LeongLeeSquareJS.htm`. Change the page title to `<my name> SquareJS`.

Important: If you do not put `<my name>` to the above mentioned fields (page title and filename), **you will get 0 point for the question.**

Estimated time: 1 hour

Q2: **Registration** [25 points] - JavaScript

Create a registration form, similar to what you might encounter when registering for an online Web site, including two sections: Personal Information, and Security Information.

In the Personal Information section, add name and e-mail address. Include default text in the name and e-mail text boxes, but write some code that removes the default text from each text box when a user clicks it.

In the Security Information section, add password and password confirmation fields. Write code that ensures that the same value was entered into both fields.

Add Submit and Reset buttons that call `submit()` and `reset()` event handler functions when they are clicked. The `submit()` event handler function should ensure that the user has entered values into each text box, and that the values submitted are not the same as the default text. Submit the form to the `FormProcessor.htm` file (which is an empty html file with no content). Save the document as `<my name>Registration.htm`.

Note: For this question, name your file `<my name>Registration.htm` (or `.xht`). For example, my file would be named: `LeongLeeRegistration.htm`. Change the page title to `<my name> Registration`.

Important: If you do not put `<my name>` to the above mentioned fields (page title and filename), **you will get 0 point for the question.**

Estimated time: 2 hours

Q3: **Personal** [25 points] - PHP

Write a PHP web page (program) that displays the following information, each on a separate line. Please store the following information in PHP variables first, and then display the PHP variables (**If you do not use PHP variables, you get 0 point for the question**):

- Your name

- Your address, with city, state and ZIP
- Your telephone number
- Your college major

Note: For this question, name your file `<my name>Personal.php`. For example, my file would be named: `LeongLeePersonal.php`. Change the page title to `<my name> Personal`.

Important: If you do not put `<my name>` to the above mentioned fields (page title and filename), **you will get 0 point for the question.**

Estimated time: 1 hour

Q4: SquarePHP [25 points] - PHP

Write a PHP web page (program) that hardcode a positive integer no greater than 15 (store the integer in a variable). The program should display a square on the screen using the character 'X'. The number stored in the variable will be the length of each side of the square. For example, if the number is 5, the program should display the following:

```
XXXXX
XXXXX
XXXXX
XXXXX
XXXXX
```

Note: For this question, name your file `<my name>SquarePHP.php`. For example, my file would be named: `LeongLeeSquarePHP.php`. Change the page title to `<my name> SquarePHP`.

Important: If you do not put `<my name>` to the above mentioned fields (page title and filename), **you will get 0 point for the question.**

Estimated time: 2 hours

Submission instructions:

You need to test the above programs (questions) separately, and provide **two test cases** (if applicable) for each program (question). Do a screen capture of the input and related output for each test case. Use any graphic editing software (e.g. Microsoft Paint, Adobe Fireworks, GIMP) to cut out the program input and output (from the screen capture), paste them into a word document under a related question number, save the document as a pdf file.

You need to submit the following:

1. A pdf file containing the screen captures of program input and output of all test cases, name the file **lastname_firstname_assignment03.pdf**.
2. All html (or xht) files containing Javascript. All php files and related html files. Zip your files into a single zip file (or rar file) **lastname_firstname_assignment03.zip**.

Please submit electronic copy (the above mentioned **two files**) 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 (comments)**? Are unclear parts of code **documented (comments)**? (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**.