CST8209 (21F)– Midterm practical evaluation (20 points)

Objective

In this evaluation you will apply what you learnt about JavaScript variable, loops, functions, objects and arrays.

Hint: Use BS course content Week#1 to Week#6 to guide you through the steps below.

Requirements

1. Download the zipped file folder Midterm.zip
2. Extract the files and save to your computer – preferably to your course workspace folder
3. Open the Midterm folder in your code editor (Atom)
4. You should find the following files in the Midterm project folder:

   a) /midterm.html

   b) /scripts/midterm.js

5. Once done please zip and upload the web folder as **first_last_midterm.zip**

Grading: If your code does not run due to an error 25% will be deducted from your grade (-5 points).

Section A – Create your own class (4 points)

1. Create a class with at least **4 properties and 3 different datatypes**
2. Create 2 methods named in midterm.js, one of them will return formatted html
3. Please do not to use former lab or course content class

Section B – Populate an array of objects and display it(4 points)

1. Create an array of objects of your Class in Section-A in file midterm.js
2. Use proper way to loop over the array and display the content as shown

John Doe - Business Card

Array Data entered as is

Name: Sue Suthers
Email: sue@suthers.com
Address: 123 Elm Street, Yourtown ST 99999
Phone: 555-555-9876

Name: Fred Fanboy
Email: fred@fanboy.com
Address: 233 Oak Lane, Sometown ST 99399
Phone: 555-555-4444

Name: Jimbo Jones
Email: jimbo@jones.com
Address: 233 Walnut Circle, Anotherville ST 88999
Phone: 555-555-1344

| Sort Name Ascending | Sort Name Descending |

| | Filter by Name |

Array Data after Filtering and Sorting

Section C – Array Sorting & Filtering (8 points)

1. Use the provided inputs in the midterm.html to handle sorting and filtering, you will need to use one function "**sortOrFilter**" with a switch statement to call appropriate code for the job needed. (2pts)

2. You have the choice to pick any **2 sorting(**2x(2pts)**) and 1 filtering criteria** (2pts) (you can sort by one property or more, ascending or descending), make sure the buttons reflects the sorting method (here I do it by name property).

3. Every sorting or filtering function must declare a compare function.

Section D – Code quality (4 points)

1. Proper naming of variables and functions, following convention, etc.

2. Indentation, comments, proper use of tools

3. Best practice, code efficiency and reusability

4. Code is fully functional as expected

5. Proper display of original array and sorting and filtering results (see below)

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Email: jimbo@jones.com
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Phone: 555-555-1344

[Sort Name Ascending] [Sort Name Descending]

[_____] [Filter by Name]

Name: Fred Fanboy
Email: fred@fanboy.com
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