Assignment1: Essential JavaScript 15%

This assignment includes number of different works. Make sure you start working on it from the day it is assigned for you. In this programming assignment, we ask you to create a set of JavaScript functions and objects, then demonstrate that they operate correctly. You can use any editor to write the functions.

Mandatory notice:

- Save any of your JavaScript file with the following naming format
 SODV1201_A1_FirstName_filename.js (filename means any word you would like to use to name the file. For example: sodv1201 a1 Jhon index.js could be valid file name format)
- All the function should be written in this single JS file only. For this assignment multiple JS file is not necessary however you can have multiple html files.
- It is highly recommended for you to create your own CSS file instead of embedding others style like bootstrap and others.

This is a coding assignment, so all the rules about best coding practice apply. Your code is evaluated for **correctness** (does it achieve the task it is supposed to) and for **hygiene** (is it clear, well-commented, and easy to follow). There is no point in writing accurate code that nobody else can understand. Some tips to ensure good code hygiene:

• Add documentation about you on the very top of your code. Something similar to

```
/**

* @name: Assignement1

* @Course Code: SODV1201

* @class: Software Development Diploma program.

* @author: Your Full Name.

*/
```

- Add intelligent comments that explain your logic for each code
- Add intelligent comments before expressions, methods, functions and classes to outline what they do
- Use sensible variable names that match the purpose of a variable
- Use whitespace between functions and code blocks and indent consistently

DETAILS

Assignment Type: Individual

Original Work: Required **** do not copy online examples or your friends work ****

Submission: GIT/D2L, SODV1201_A1_FirstName_filename.js

Due Date: Check the course outline on D2L

HOW TO GET TOP MARKS

Implement all functions as directed; write clear, clean, and readable code with adequate whitespace; use meaningful variable names; demonstrate great code hygiene; ensure there are no spelling, grammar, or sentence structure errors in your code comments; test carefully; use a consistent visual style; avoid submitting incomplete or superficial work; don't plagiarize; follow submission guidelines properly and submit on time!

ASSESSMENT CHECKLIST Essential JavaScript Assignment

	Score
Author identification, course code, assignment title, date in web page	10
Implements test cases correctly	40
Code is readable and well-organized with adequate whitespace	30
Code has detailed inline explanations (comments)	20
Total	100
Days late (@5/day)	
Reminders sent (@5/ea)	
Spelling/grammar faults in commenting (@2/ea)	
Uses other scripts or libraries (0%)	
Unreadable or machine translated submission (0%)	
Plagiarized or unoriginal work (0% + academic sanction)	
Total adjusted	/100
LMS updated	

Questions

- 1. Create a single personal profile page about yourself with any kind of style. This page should include one picture, 1 or 2 paragraph, and header with navigation bar and footer.
 - The navigation bar will be used to create a link to another pages that you will create for the other questions.
 - The footer of your page should include current date and copy right information
- 2. In your profile page, the name of the picture should appear after 10 second
- 3. Build a Mark to Grade converter application page with the following specification and create a link to it in your profile page
 - The MarkToGrad function scrapes the student mark out of the mark-input-box element and verifies it is **realistic**.
 - A Mark must be number only, nonnegative, and less than 101.
 - If an invalid mark is entered, it displays a message back to the user in the validation-message element.
 - Messages should be informative... return as many different messages as you
 can to guide the user what kind of erroneous value has entered
 - ➤ If the user entered any value above 90 Grade A should be displayed as a result
 - ➤ If user entered any value above 80 Grade B should be displayed
 - ➤ If user entered any value above 70 Grade C should be displayed
 - ➤ If user entered any value above 50 Grade D should be displayed
 - ➤ If user entered any value less than 50 Grade F should be displayed
 - Hint 1: In JavaScript, we can use the global parseInt function to try and convert a string to a number.
 - Hint 2: Use exception handling.
 - Hint 3: Use HTML and JavaScript
- 4. Write a program which display list of staff information with sorting capability by name and salary. Sample array data about staffs will be provided for you from your instructor.
 - For this question you are expected to apply the concept of JavaScript object, Array and function.

- 5. Use the concept of JavaScript named and anonymous function and create a program that can accept a temperature input in degree Fahrenheit and convert it into degree Celsius and from Celsius to Kelvin based on a button click event.
 - Hint: Use JQuery to access the DOM elements in your code for this question.
 - Do a little research to find out the basic formula for each calculation.
- 6. Create a stylesheet and add different style to your pages.