

## Website Development 2 Repeat Requirements

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In order to meet the pass requirements for this module, you are required to:

1. Complete the JavaScript Exercises as specified in Part One below; and
2. Complete the jQuery Exercise as specified in Part Two below; and
3. Complete the JSON and Handlebars Exercise as specified in Part Three below.

### **Instructions:**

Present (demo) your work to me on Monday September 2, 2019 in IT118 at 11:30.

### Part One

Write JavaScript code for each of the following exercises:

#### Exercise One

Prompt the user for a numeric integer value. Pass the inputted number to a function called **factorial**.

Create a function (factorial) that returns the product of the numbers from 1 to the value input and passed to the function.

The returned value is to be displayed on screen (with a suitable message).

#### Exercise Two

##### The Calculator

- Create a function named *calculateAge* that:
  - takes 2 arguments: birth year, current year (taken from Date function).  
Get the current year from the system.
  - calculates the difference between the year values.
  - outputs the result to the screen like so: "You are either NN old this year"
- Call the function three times with different sets of values.

#### Exercise Three

Create an array with the following elements: 3, 9, 2, 7, 4.

Create a function called *output* that accepts the array as input and performs the following 3 tasks:

1. Sorts the array in ascending order.
2. Outputs the sorted array.
3. Outputs the product of the array.

**Array in Ascending order:** 2,3,4,7,9

**Product:** 1512

### Part Two

Create an interactive website for individuals who wish to go to the 3 day concert (All Together Now) in Curraghmore House, Waterford this August Bank Holiday weekend.

#### Assignment Detail:

Using Semantic UI, design the layout for the site AND using the jQuery library and plug-ins, add Javascript code to the website to make the site interactive and dynamic. This will demonstrate your ability to utilise the library and incorporate all 3 aspects of Web Development (Content, Presentation, and Behaviour).

#### Examples:

- a. Enhance any pages that include images by adding image rollovers, replacement, swapping, a lightbox, or a slideshow.
- b. Include a form to buy tickets and provide Client Side validation.
- c. Provide hide/show interactivity on pages that have a lot of content.
- d. Include your own interactivity (by downloading a plugin) that has not been covered in class.

### Part Three

You are to create your own JSON array of objects based on the Gaming Industry (include an array of developer details and for each developer, have an array of information about some of the games developed).

Using JavaScript/jQuery and Handlebars, you are to output the content of your array in a coherent and readable format.

Make use of Handlebars expressions and helpers.