**Programming: Web Design and Development**

**PROG8020 – Midterm Set 1**

**Important Notes:**

* This assessment must be completed **individually**.
* I will be checking for borrowed or copied assignments. All work is to be done from scratch, you may not use any templates or other assistances.
* **This assessment is out of 30 marks total.**

Jack’s Wholesale sells:

1. T-Shirts at $15.00/t-shirt
2. Jackets at $50.00/jacket
3. Caps at $10.00/cap

The tax on the items is 13%.

Provide this company with a website that allows users to know more about the products and create a quote for some amount of the various items sold.

**Create a “Home Page”** that is for information purpose only and shows the information about the shop and three products. Arrange the information in a presentable format of your choice. Hide some information about the products that only shows when a user clicks on a button that says something like “More Info” or something similar. **Hint:** Use jQuery show/hide feature for this.

***3 marks***

**Create a “Shop Page”:**

Take input for the following:

1. Number of T-shirts
2. Number of Jackets
3. Number of Caps
4. Customer Name
5. Customer Phone
6. Other customer information as you see fit

Shop page marks:

1. Shop page static content like HTML elements for form. ***4 marks***

On form submission generate an invoice and display it on the screen. Use client-side (JavaScript) programming only. No server-side programming required.

The invoice should contain:

1. a line for each non-zero quantity item

(item quantity, name, unit price, total

item price) ***4 marks***

1. a line for the sub total before tax ***2 marks***
2. a line for the total tax ***2 marks***
3. a line for the sales total ***2 marks***
4. all the customer information collected ***2 marks***

**Marks for other items:**

1. JavaScript number validation for the inputs of t-shirts, jackets and caps. ***3 marks***
2. Customer phone should be in the format (xxx)-xxx-xxxx only. No other format acceptable.  
    ***2 marks***
3. Video demo explaining your code and showing the final execution of the application. **Make sure to showcase all the features of your application like filling the product quantity, customer name, all the validations and receipt.** For the video demo, you are not required to use your camera, but you can if you want. You are only required to record your screen and your voice explaining the solution and your code. Please submit .mp4 files only. You can use Zoom/PowerPoint for doing that, but you can use any other software for recording the video too. ***4 marks***
4. Programming style, standards and overall completion of the tasks. ***2 marks***It is a good idea to practice conforming to a set of programming standards. Refer to the posted summary of the IT Standards posted in IT Programs > General Resources.

**Miscellaneous notes:**

* You are free to choose your own colours. In order to have a professional and consistent look and feel, choose a colour palette and stick to it. You can use the following resources to generate a palette:
  + <https://www.canva.com/colors/color-palette-generator/>
  + <https://coolors.co/generate>

**Submission Guidelines:**

1. Place all your code into a single folder. Zip this folder and submit the zipped file to eConestoga dropbox **(Assignments > Midterm)**. A good way to make sure everything is correct; is to unzip the file you are submitting on a different location on your computer and making sure everything works. **Submit .zip files only.**
2. Upload the video explanation separately from your code zip file. Please do not zip your video with the code. You may have to make a second submission for that as the dropbox only allows you to submit one file at a time. **Submit .mp4 files only for the video.**

**Note:** You can submit multiple times if you want. Please mention in comments which submission to evaluate. Also note that if you resubmit after the due date, late penalties apply as per your Program Handbook.