



DOUGLAS COLLEGE
COMMERCE AND BUSINESS ADMINISTRATION
CSIS 1280: MULTIMEDIA WEB DEVELOPMENT

Quiz 2
(6 % towards your Final Grade)
Total Marks: 100

Instruction: Please place all the JavaScript code in one external file “solution.js”.

Question 1:

Marks: 40 (35 + 5)

- (a) Code an event handler (function) named `processEntries()` that gets the user entries for subtotal and tax rate, calculates the sales tax and total, and displays those results in the text boxes with ids "sales_tax" and "total" respectively. Attach the `processEntries()` function to the onclick event handler attribute of the **Calculate Sales Tax** button.
- Add data validation inside the `processEntries()` function.
 - The subtotal entry should be a positive number that's less than 10,000. If not, display the error message in alert dialog box: ***Subtotal must be > 0 and < 10000***
 - The tax rate should be a positive number that's less than 12. If not, display the error messages in alert dialog boxes: ***Tax Rate must be > 0 and < 12***
 - Move the focus to the Subtotal field when the user clicks the **Calculate Sales Tax** button.
- (b) Also code the event handler for the onclick event handler attribute of the **Clear Entries** button. This should clear all text boxes and move the cursor to the Subtotal field.

Formula: Sales Tax = Subtotal * Tax Rate/100 and Total = Subtotal + Sales Tax

Question 2:

Marks: 30 (20 + 10)

- (a) Code an event handler `styledContent()` and attach it to the onclick event attribute of the **“Press here to see the styled content”** button. The function should style the content as follows:
- For `<p>` element with id="qn2a": change the background to red, text color to yellow, font-size to 32, and the text should be in bold.
 - For `<p>` element with id="qn2b": change the background to white, text color to purple, font-size to 45, and the text should be in *italics*.

Note: The styling should be done using JavaScript and not hard-coded into the HTML.

- (b) Create the following rollover effect for the `<h2>` element with text ROLLOVER EFFECT
- on mouse over, the text should be underlined and red,
 - on mouse out, the text should be yellow with no underlining.

Question 3: Code an event handler `displayResults()` and attach it to the body element using onload event handler attribute. Inside the function `displayResults()`:

Total Marks: 30

- Create an array **scores** that contains eight unique score values 15, 70, 16, 90, 35, 45, 52, 63.
- Insert three new scores 60, 85, 74 into the array starting at position 3 and display the new array in `<p>` with id "newScores".

Marks: 5

- Perform a linear search operation on the new scores array to find the location of score value 45 in the array and display a message: **“The score 45 is found at location XX”** in <p> with id "scoreResult". **Marks: 10**
- Reverse the elements of the array **without using reverse() function** and display the reversed array in <p> with id "reverseScores". **Marks: 15**

Quiz 2		
Replace with your Name and Student ID		
Question 1	Question 2	Question 3
Enter Subtotal and Tax Rate Enter the Subtotal: <input type="text" value="2000"/> Enter the Tax Rate: <input type="text" value="3"/> Sales Tax: <input type="text" value="\$ 60"/> Total: <input type="text" value="\$ 2060.00"/> <input type="button" value="Calculate Sales Tax"/> <input type="button" value="Clear Entries"/>	Styled Content and Mouse Rollover <div>It is the Multimedia Web Development Class</div> <div>Today is Tuesday!!!!</div> <input type="button" value="Press here to see the styled content"/> ROLLOVER EFFECT	Use of Array and Loop The new array is: 15 70 60 85 74 16 90 35 45 52 63 The score 45 is found at location 8 The reversed array is: 63 52 45 35 90 16 74 85 60 70 15

Submission:

- Your submission should be a **single zip file** named **lastname_StudentID** that contains your work.
- Include your name and Student ID in the body section of the HTML document where specified.
- You need to submit your exam through the Blackboard community. **NO LATE SUBMISSION** will be allowed.