LAB ASSIGNMENT 2

Submission Format:
Put all files in folder named "<Roll number>_Lab_Assignment2" and compress it to "<Roll Number>_Lab_Assignment2.tar.gz". Upload this compressed file.

Disclaimer: Unless until mentioned in any question, you are allowed to use any tag or keyword offered by standard HTML, CSS, JavaScript library

1. Create a small HTML page, where there is a text ("red", "yellow" or "blue") and a button below it. Write javascript function so that whenever the button is clicked the text and the text color changes in this order: red->yellow->blue->red . Name the file "q_1.html".

2. Create a small HTML page. Add three radio buttons on top having text : ISS, Data Structures and MDL. Add an unordered list below this 3 buttons which displays 4 of your favorite topics from the selected course above. For example is ISS is selected the list should contain any for topics from ISS course. Name the file "q_2.html" (Hint : what else can you use other that *getElementById()*)

3. Create a small form in HTML page with 3 fields.
   a. Username
   b. Password
   c. Confirm password

   Make sure the content of password fields is not visible to the user when he/she is typing (Like what you see on facebook/google login). Add a submit button bellow it. When the user clicks on submit check for following conditions,

   1. Username and password are at least 4 letters long
   2. Password and confirm password match exactly
   3. Username should contain '@' character

   If all the three conditions are satisfied show a "Success" message in green or else show a "Failed" message in red. Name the file "q_3.js".

4. Create a new html file named "q_5.html". Using the data from the previous section("data.js"), perform the following tasks: - Create a heading (<h1>) named "Student Sheet" in the <body> of html page. - Create an HTML table(<table>) with the following header(<thead>).

   | Name | marks1 | marks2 | marks3 | marks4 | marks5 |

   - Populate the table with entries from the JSON object.

- Highlight the row with color green, on hover over any row of the table.

6. Create a new HTML file named "q_6.html" and perform the following three tasks:
- **Dropdown**: Create a dropdown(<select>) of names of the students.
- **Displaying marks**: On selecting any student name, display the corresponding attributes of the selected student in a table with the following format:
| Name | marks1 | marks2 | marks3 | marks4 | marks5 | Percentage | Grade |

- **Criteria for grade:**
%age Grade
>90   A
80-90 B
70-80 C
60-70 D
<60   F

- **Highlight**: Highlight the minimum and the maximum marks with red and green respectively.

(Include data.js file in a separate script tag and use the variable jsonObject directly in another <script> tag)

Resources   1. https://www.w3schools.com/js/default.asp
              2. https://developer.mozilla.org/en-US/docs/Web/JavaScript