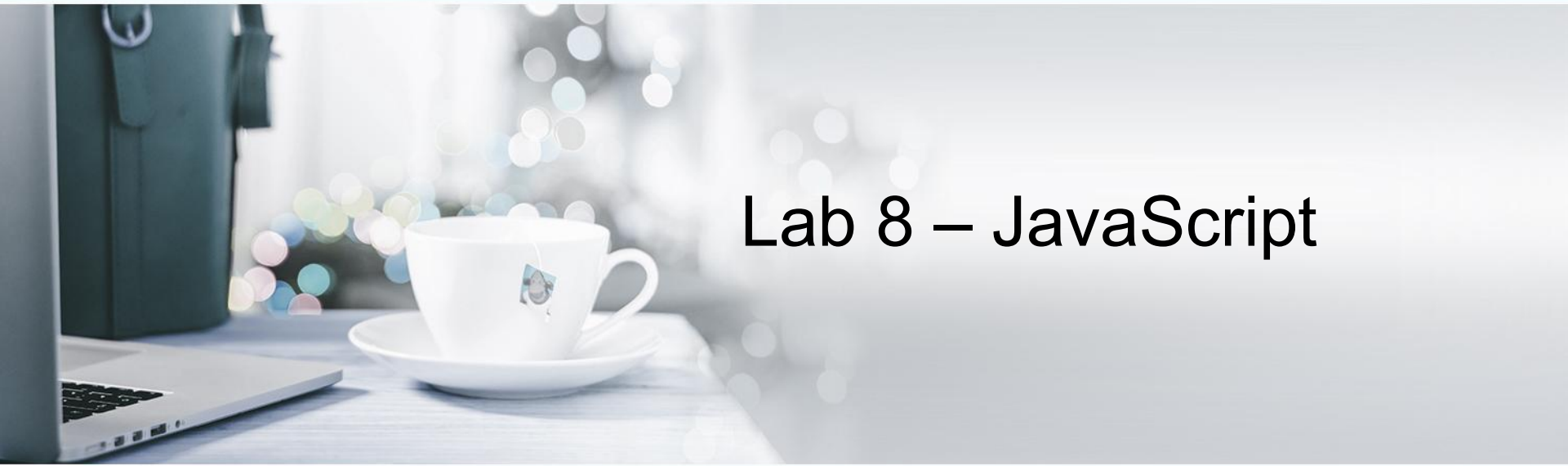# Web Programming

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Lab 8 – JavaScript

Assignment 1. Create a To-Do List

Write JavaScript to implement the following design:

> Hit the gym   ×
>
> ✓ ~~Marry~~   ×

Guideline:

- Complete the design using HTML, CSS

- Write JavaScript code using both the innerHTML property and the **createElement** method.

Assignment 2. Gallery

- Create an array containing image URLs.

- Use the Carousel component from the Bootstrap library to display all the images.

Assignment 3. Student List

1) Create a list of student (at least 5). Each student should have the following properties: Name, Email, Phone Number, ID, Class

2) Sort the list alphabetically in Ascending order by Name

3) Write a function to display the list in an HTML table

4) Write functions to add a new student to the list (both head and tail of the list)

5) Write a function to change the name of the student with the ID 2

6) Write a function to search for students whose name contains a given keyword

7) Write a function to delete a student with the ID 3

Note: It is required to re-render the data table after performing add, delete, update, or search operations.

Assignment 4. VOW

- Create two product lists, each containing a set of products. Each product should have properties like Name, Price, Category, etc.

- Create a news list containing articles or news items. Each article should have properties like Title, Date, Author, etc.

- Write a function to display the lists following the VOW design.

Assignment 5. Dark Mode

Switch between dark and light mode with CSS and JavaScript.

Toggle Dark/Light Mode

Click the button to toggle between dark and light mode for this page.

Toggle dark mode

Toggle Dark/Light Mode

Click the button to toggle between dark and light mode for this page.

Toggle dark mode

Note: It is recommended to use a button like the one below:

Assignment 6. Gallery

Create a tabbed image gallery with the following requirements:

- Click on a thumbnail image to expand it.
- Add a border to the clicked image.
- Write a script to change an image every 5 seconds.
- Write a script to remove the enlarged image when clicking the "X" button.

Northern Lights