Exercise03: Javascript

Objectives:

To learn to use Javascript and play with basics

- simple variables (local and global), conditions, loops, methods, and arrays.

- User input validations.

- Event Handling

Work with your group (or by yourself). Each group to upload only one submission.

1 Warm Up: Try Some Examples

1. First, open blackboard, go to Course Contents, and then download exercise03.zip file into your workspace (U:\workspace or something like that!). Then, unzip.

2. Play with each of the given examples (in examples directory). Open them using a text editor of your choice and modify parts of the html or js files to learn how the different instructions work.

3. Note: w3schools.com is a good site to learn web technologies.

Note that the assignment assumes you have understood these examples.

2 Form Validation

- Create two files **validation.html** and **validation.js**

- Create a HTML form in validation.html with following Fields and a submit button.

Field Label	Field Type	Validation rule
Name	TextField	*Required. Must contain only alphabetical or numeric characters.
Gender	Dropdown	*Required.
Address	TextArea	*Required.
Email	TextField	*Required.Must be in the form xxx@xxx.xxx x should be alphanumeric.

Phone	TextField	Must be in the form xxx-xxx-xxxx or xxxxxxxxxx x should be number

*Required = Cannot be Empty.

- Write Javascript code in validation.js to validate the above form when user clicks Submit button. And include validation.js in head section of validation.html

3 Event Handling

Write a Javascript and HTML code to implement the functionality shown in 'Problem2Output.mp4' (video file present in Exercise03_Javascript.zip file).

Hint : It uses HTML5 Canvas commands (see w3schools.com).

Submission:

Zip your html and js files and submit on black board. Remember there is only one submission per group. Make sure to include all the files that are needed in order to run your program.