Vellore Institute of Technology
(Deemed to be University under section 3 of the UGC Act, 1956)

Programme	:	**B.Tech.**	Semester	:	**Winter24-25**
Course	:	**BCSE203E:** **Web Programming Lab**	Slot	:	**TE1/TE2**
Faculty	:	**Dr. LM Jenila Livingston**	Marks	:	**10**

Date: 17/02/2025

Exercise 11: JavaScript DOM-Dynamic Elements, Event Handling, EventListener, Form Validation

1. Write a JavaScript to
   (i) Create a dynamic table with three rows and three columns

   (ii) Change the color of the Button from red to green color on Mouse Over.

   (iii) Change the color of the Textbox from green to yellow color on Focus and display a greeting message on Change

   Note: Both button and textbox should be created using CreateElement

   (iv) Create an input field and a button. When the button is double clicked, add the input text as a new `<li>` item to an unordered list.

   (v) Create two input fields: one for accepting input and another for counting and displaying the number of times any key is pressed.

2. (i) Create a simple stopwatch with `"Start"`, `"Stop"`, and `"Reset"` buttons using JavaScript event listeners.

   (ii) Create a text box to accept the Date of Birth and calculate the age on mouseover using an event listener.

   (iii) Create a textarea with a character counter that updates dynamically as the user types using an event listener

3. Design the **below form** and do the following

(i) Set the timer to display the current time

(ii) Print the form content. Use getElementsByName to display Gender, Country and Preferences

(iii)Validate

    (a) All Mandatory Fields (represented by *). If empty focus on the same field.

    (b) Name should not exceed 15 characters

    (c) Address – to be specified in Text Area

    (d) Zip code should be numeric and validated the maximum digits

    (e) Phone numbers should be numeric and validated the maximum digits 10

    (f) e-mail syntax should be validated

    (g) Password should contain a number, character & a special character and length should not exceed 15 and recede 8

    (h) PAN card number – Textbox (validate such that the PAN number is 10 digits and follows the pattern)

Test JavaScript Form Validataion

Time:11:30:55

Name*   [_____]   Please enter your name!

Address [_____]

Zip Code* [_____]

Country* Please select... ▼

Gender* ◯ Male ◯ Female   Pan No: [_____]

Preferences* ☐ Red ☐ Green ☐ Blue

Phone*   [_____]

Email*   [_____]

password (6-8 characters)* [_____]

Verify password* [_____]

[SEND] [CLEAR]