JavaScript Part-3 - Lab Assignment Questions on DOM

1. Dynamic Table Creator

Create a web page with input fields for the number of rows and columns. When the user clicks "Generate Table," use **JavaScript DOM manipulation** to create a table dynamically inside a `<div>`.

Bonus Challenge:

- Add an option to delete a row or column by clicking a button inside the table.

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2. Form Validation with Live Feedback

Create a **sign-up form** with fields for Name, Email, and Password.

- Show **real-time validation messages** as the user types:
  - Name must not be empty.
  - Email must be a valid format.
  - Password must be at least **8 characters** with **1 uppercase & 1 number**.

Bonus Challenge:

- Change the border color of inputs **(red for invalid, green for valid).**

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3. Image Carousel (Slider)

Create an image **carousel** with:

- "Next" and "Previous" buttons.
- Auto-slide feature that changes images every 3 seconds.

Bonus Challenge:

- Add pause on hover functionality.

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4. Show/Hide Password Toggle

Create a password input field with a **checkbox**.

- When checked, the password should be **visible**.
- When unchecked, the password should be **hidden**.

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5. Word Counter in a Textarea

Create a **textarea** where users type text.

- Display the **word count** dynamically as they type.

Bonus Challenge:

- Highlight repeated words.

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6. Digital Clock using JavaScript

Create a **live digital clock** that displays the current time (HH:MM:SS) and updates every second.

Bonus Challenge:

- Allow users to toggle **12-hour / 24-hour format**.

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7. Detect Key Pressed

Display the key pressed by the user in real-time.

Example:
Pressing A should display: `"You pressed: A"`

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8. Rock, Paper, Scissors Game

Create a **Rock, Paper, Scissors** game where the user selects an option, and the computer randomly selects one.

- Display the **winner** dynamically.

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9. Countdown Timer

Create a countdown timer where the user enters a time in seconds and clicks "Start".

- The countdown updates dynamically.

Bonus Challenge:

- Play a sound when the timer reaches **zero**.

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10. Dynamic Font Size Adjuster

Create a **paragraph** with buttons:
🔺 "Increase Font Size"
🔻 "Decrease Font Size"

Clicking the buttons should adjust the text size dynamically.