Batch - T5

Practical No. - 3

Title - Study of JavaScript

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Problem Statement 1: Basics of Java Script

Write a JavaScript function that takes an array of numbers as input and returns the sum of all numbers divisible by 10 in the array. Additionally, create a simple HTML interface with an input field where the user can enter comma-separated numbers and a button to trigger the calculation. Display the result below the button.

Screenshot:

Sum of Numbers Divisible by 10 Enter comma-separated numbers Calculate Sum

Sum of Numbers Divisible by 10 12, 120, 300, 43, 20, 10 Calculate Sum Sum of all numbers divisible by 10: 450

Problem Statement 2: Implement a function that validates a password based on the following criteria:

At least 8 characters long.

Contains at least one uppercase letter, one lowercase letter, one digit, and one special character.

Create an HTML form with an input field for the password and a "Check Password" button. Display a message indicating whether the password is valid or not.

Screenshot:

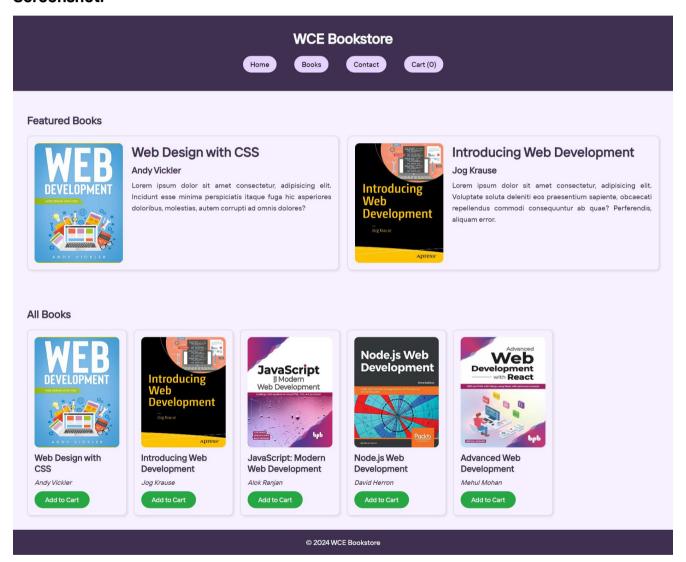
	Enter Password
	Enter your password
	Check Password
	Enter Password
	Check Password
Password	d is invalid. Ensure it is at least 8 characters long, contains one uppercase letter, one lowercase letter, one digit, and one special character.
	Enter Password
	•••••
	Check Password

Problem Statement 3: Web Development

Create a basic web page for a fictional online bookstore using HTML, CSS, and JavaScript. The web page should have the following features:

- A header with the bookstore name and a navigation menu (Home, Books, Contact).
- An area to showcase featured books with their titles, authors, and cover images.
- A section where all available books are displayed in a grid format. Each book should have an image, title, author, and a button to "Add to Cart".
- Implement a simple shopping cart functionality using JavaScript. Allow users to add books to their cart and display the total number of items in the cart on the navigation menu.

Screenshot:



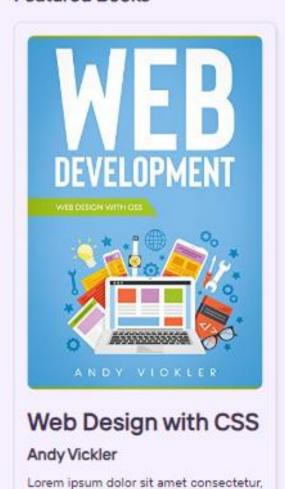
Problem Statement 4: Responsive Design

- Implement responsive design techniques to make the website mobile-friendly.
- Ensure that the navigation menu collapses into a hamburger menu on smaller screens.
- Adjust the layout and font sizes for optimal viewing on various devices.

Screenshots:



Featured Books



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Introducing Web Development

Jog Krause

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Screenshots:

