**Batch: T5**

**Practical No. 3**

**Title of Assignment:Study of Java Script**

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**Problem Statement 1: Basics of Java Script**

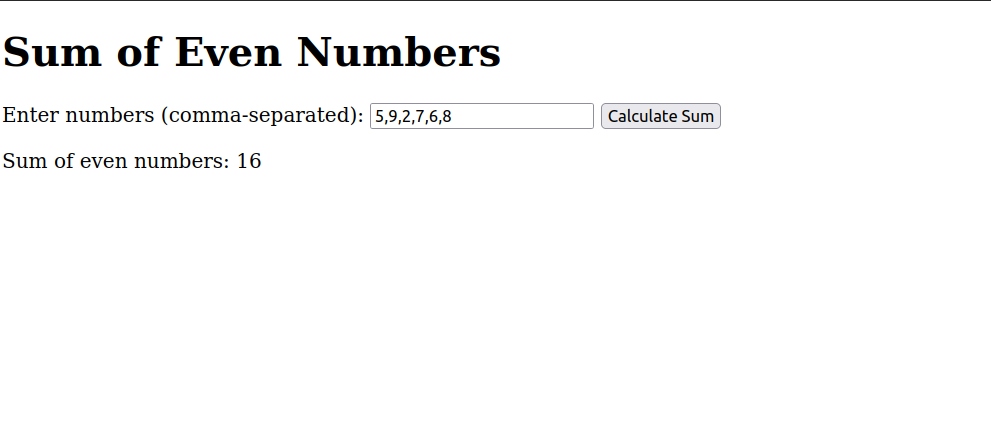
**Write a JavaScript function that takes an array of numbers as input and returns the**

**sum of all even numbers 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.**

**OutPut:**

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

**following criteria:**

**At least 8 characters long.**

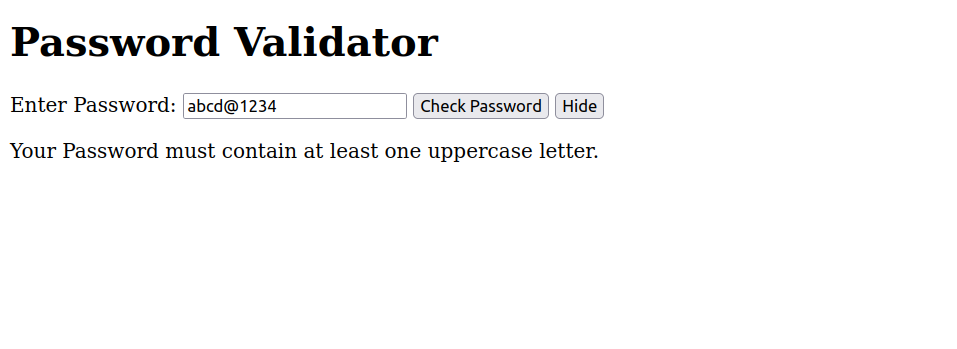
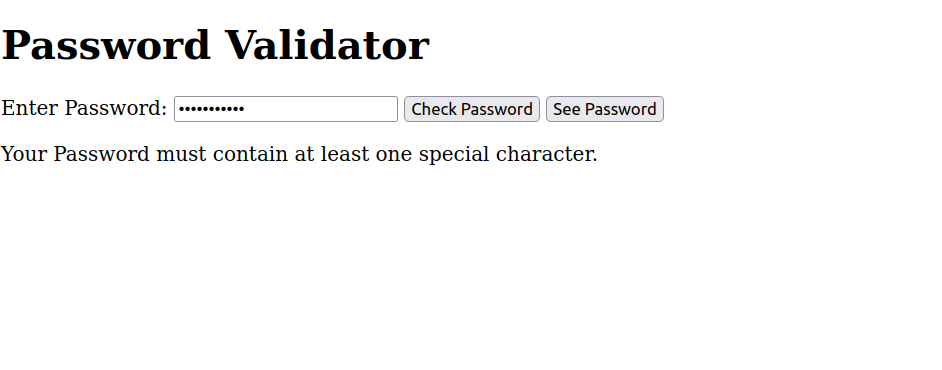
**Contains at least one uppercase letter, one lowercase letter, one digit, and one**

**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.**

**Output:**

****

**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.**

**Problem Statement 4: Responsive Design**

**Implement responsive design techniques to make the website mobile-friendly.**

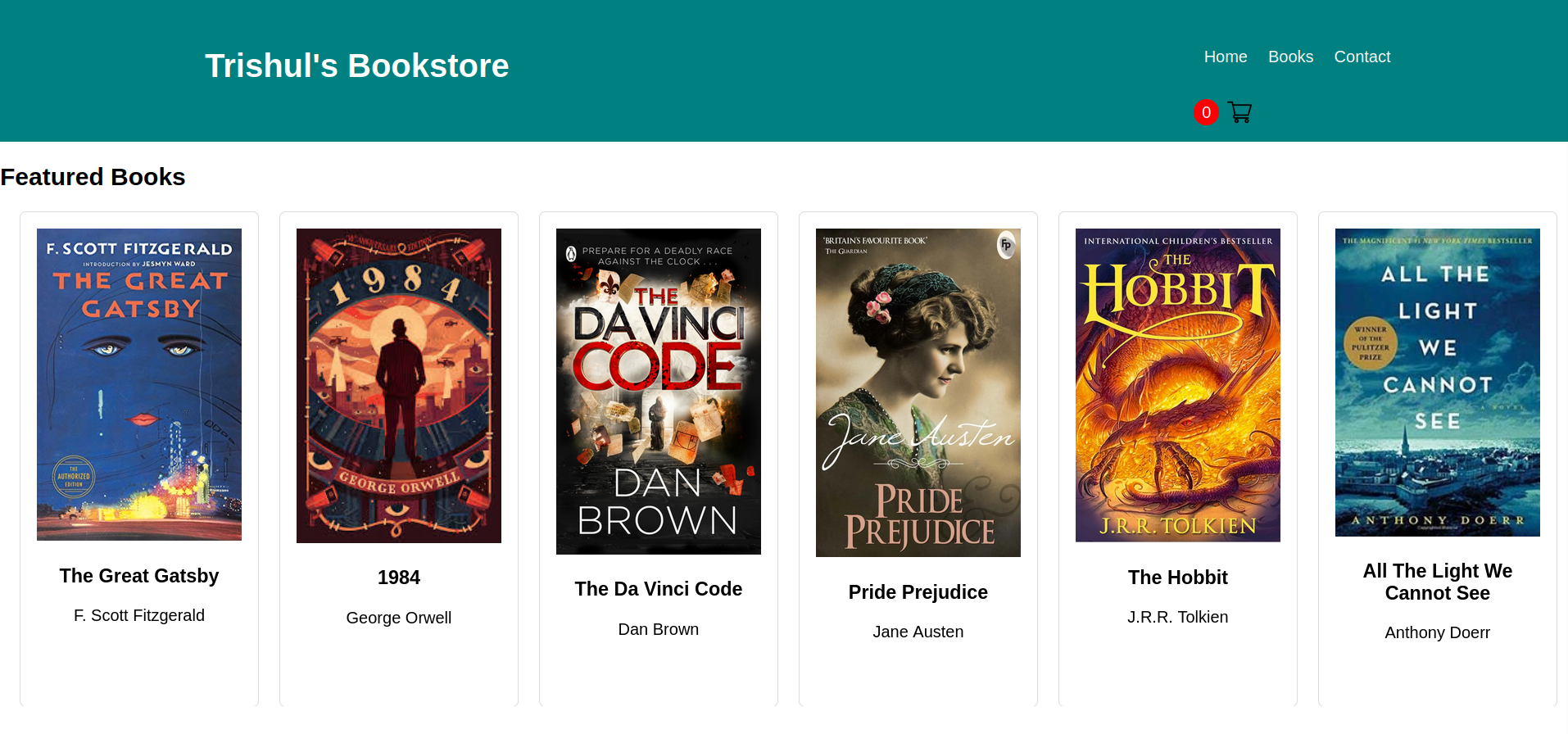
**Ensure that the navigation menu collapses into a hamburger menu on smaller**

**screens.**

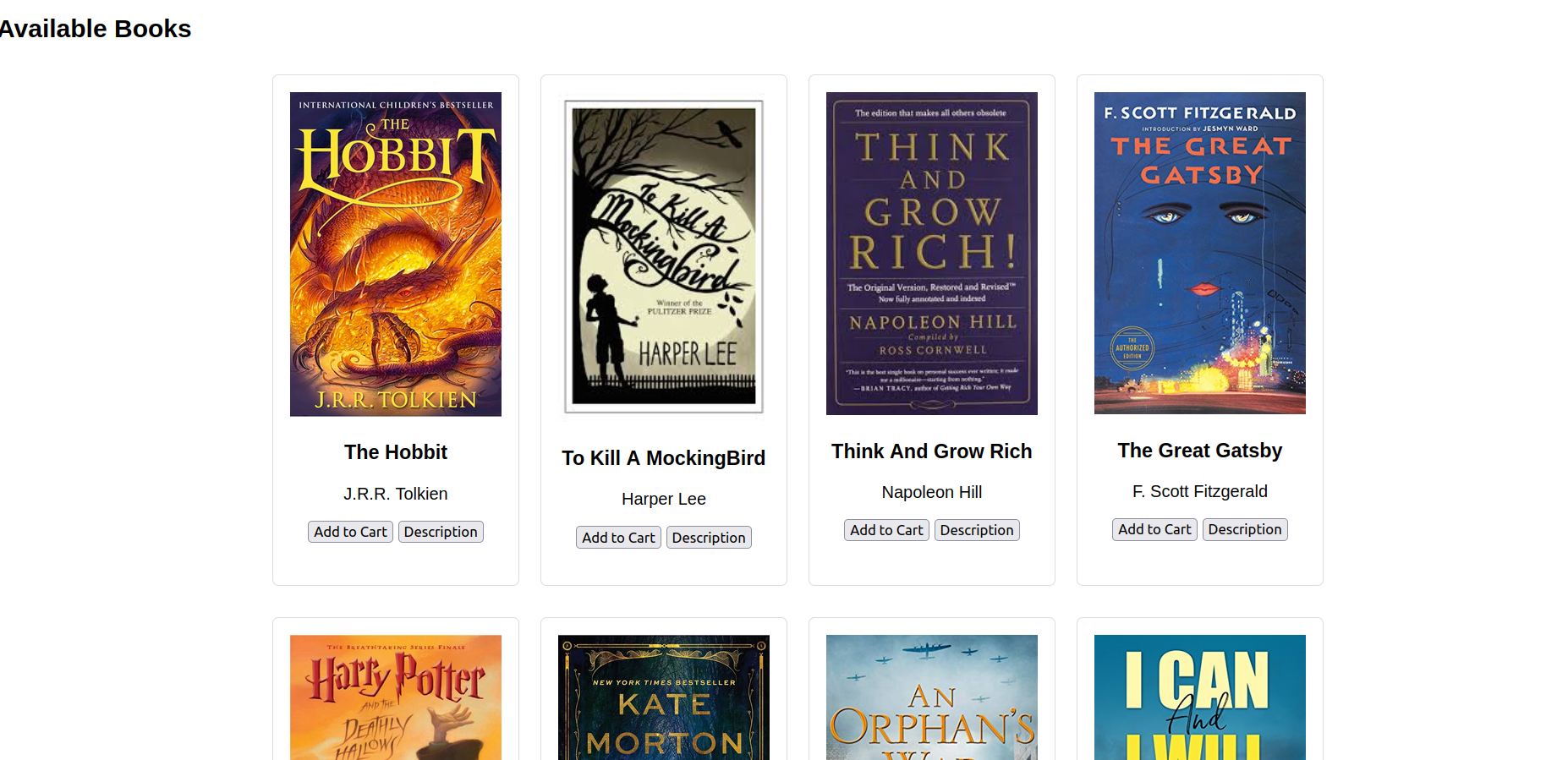
**Adjust the layout and font sizes for optimal viewing on various devices.**

**OutPut:**

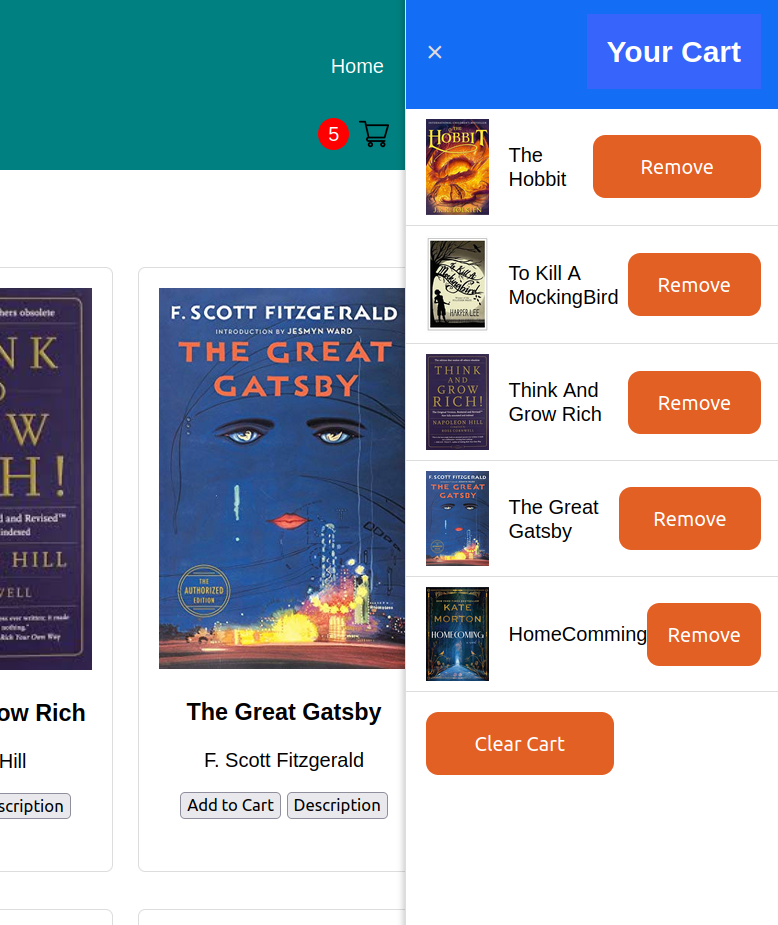
**Home Page**

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**Books Available**

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**Cart:**

****

**Hamburger:**

