**Batch T7**

**Practical No. 3**

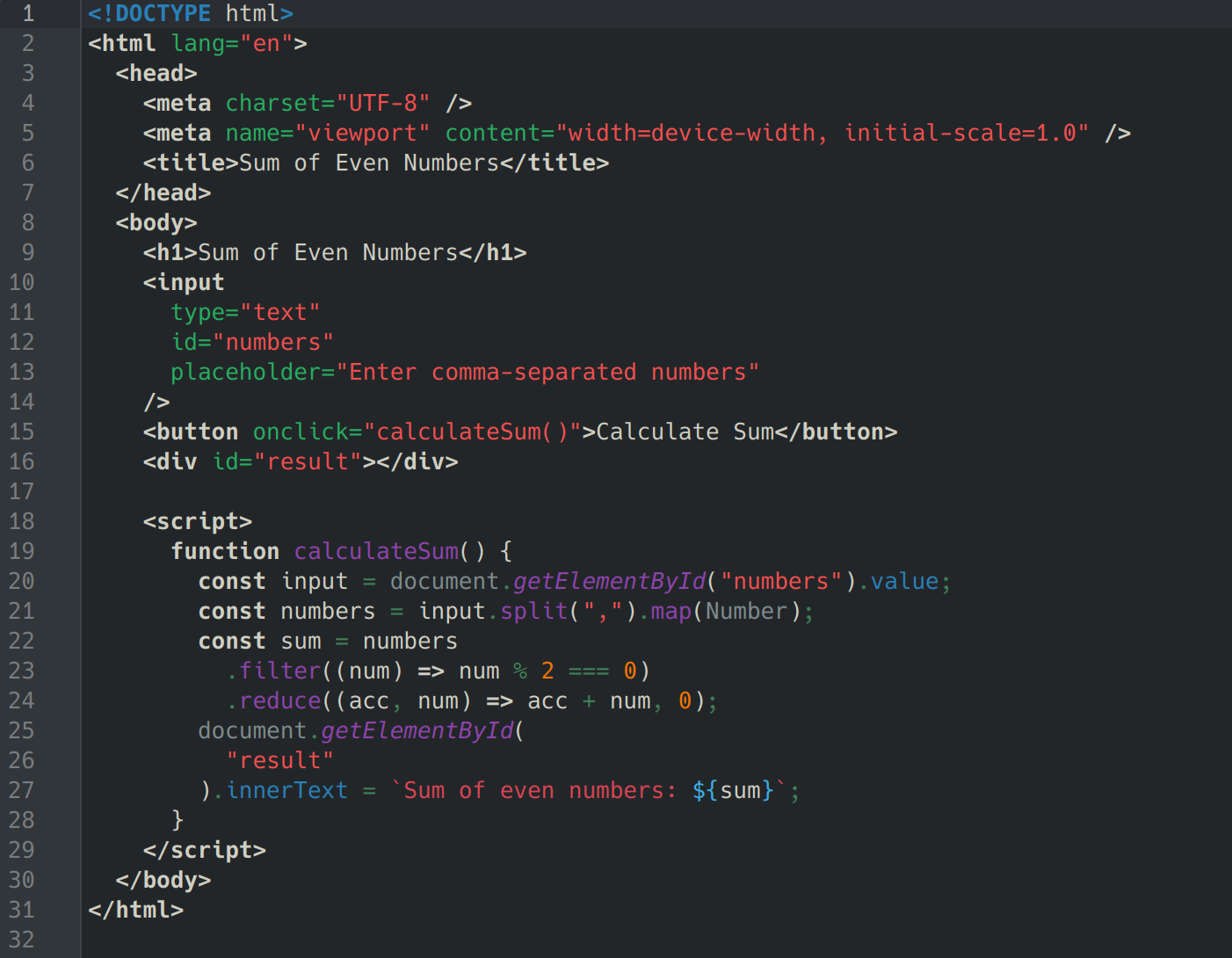
**Title of Assignment: Study of Javascript**

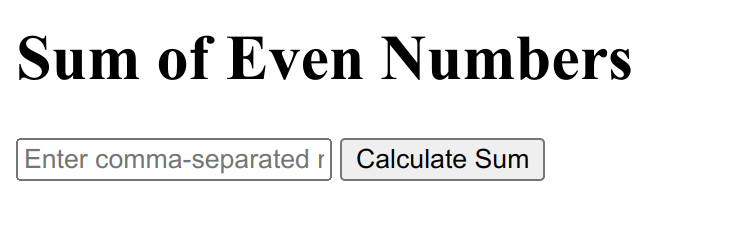
**Student Name: Shreyash Patil**

**Student PRN: 22510039**

Problem Statement 1: Basics of Java Script

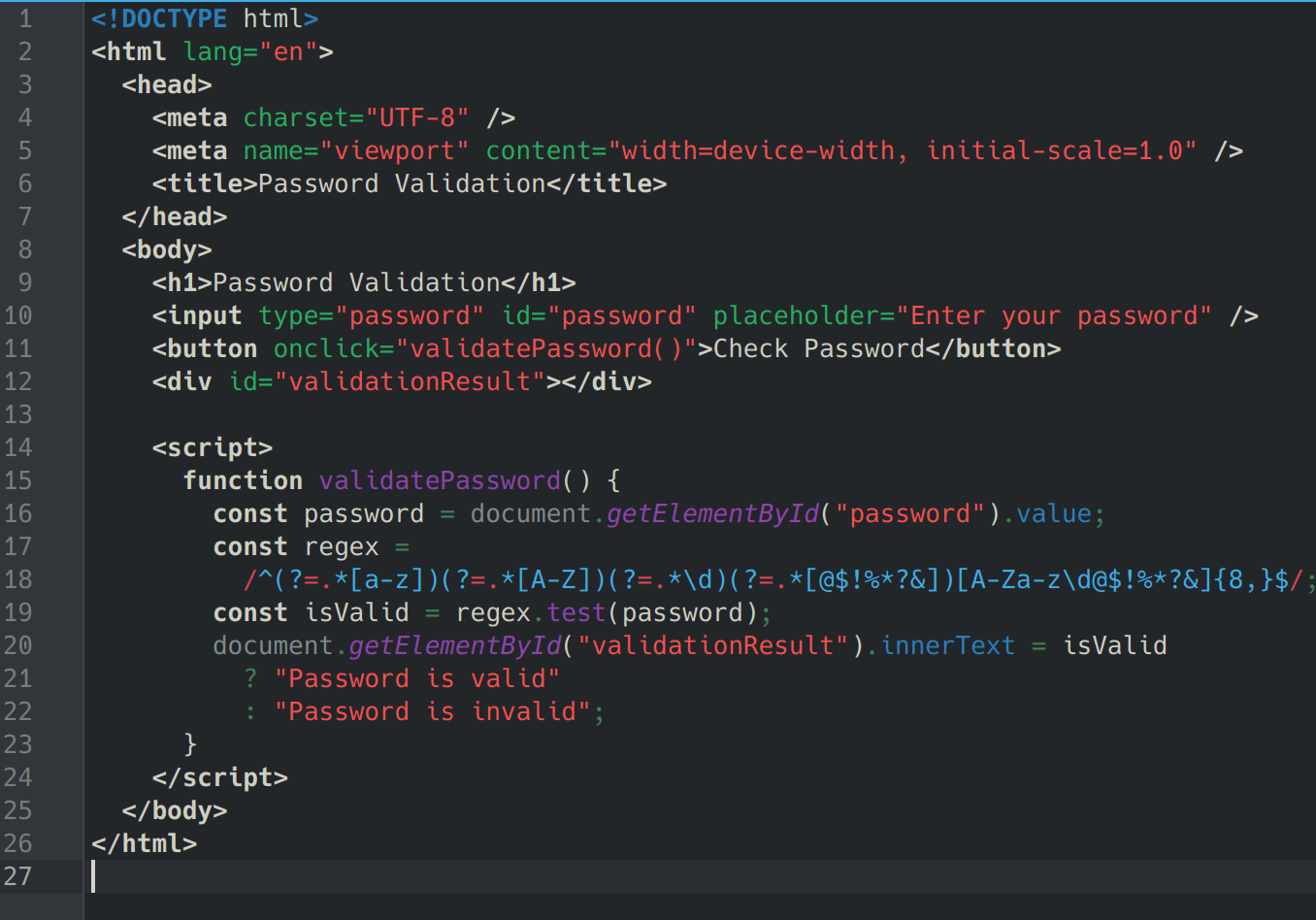
**Write a JavaScript function that takes an array of numbers as input and returns the sum of all even numbers in the array. Additionally, create a simple HTML interface with an input field where the user can enter comma-separated numbers and a button to trigger the calculation. Display the result below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

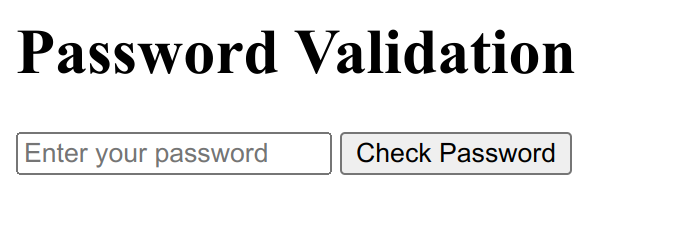
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**Problem Statement 2: Implement a function that validates a password based on the following criteria:**

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.

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**Problem Statement 3: Web Development**

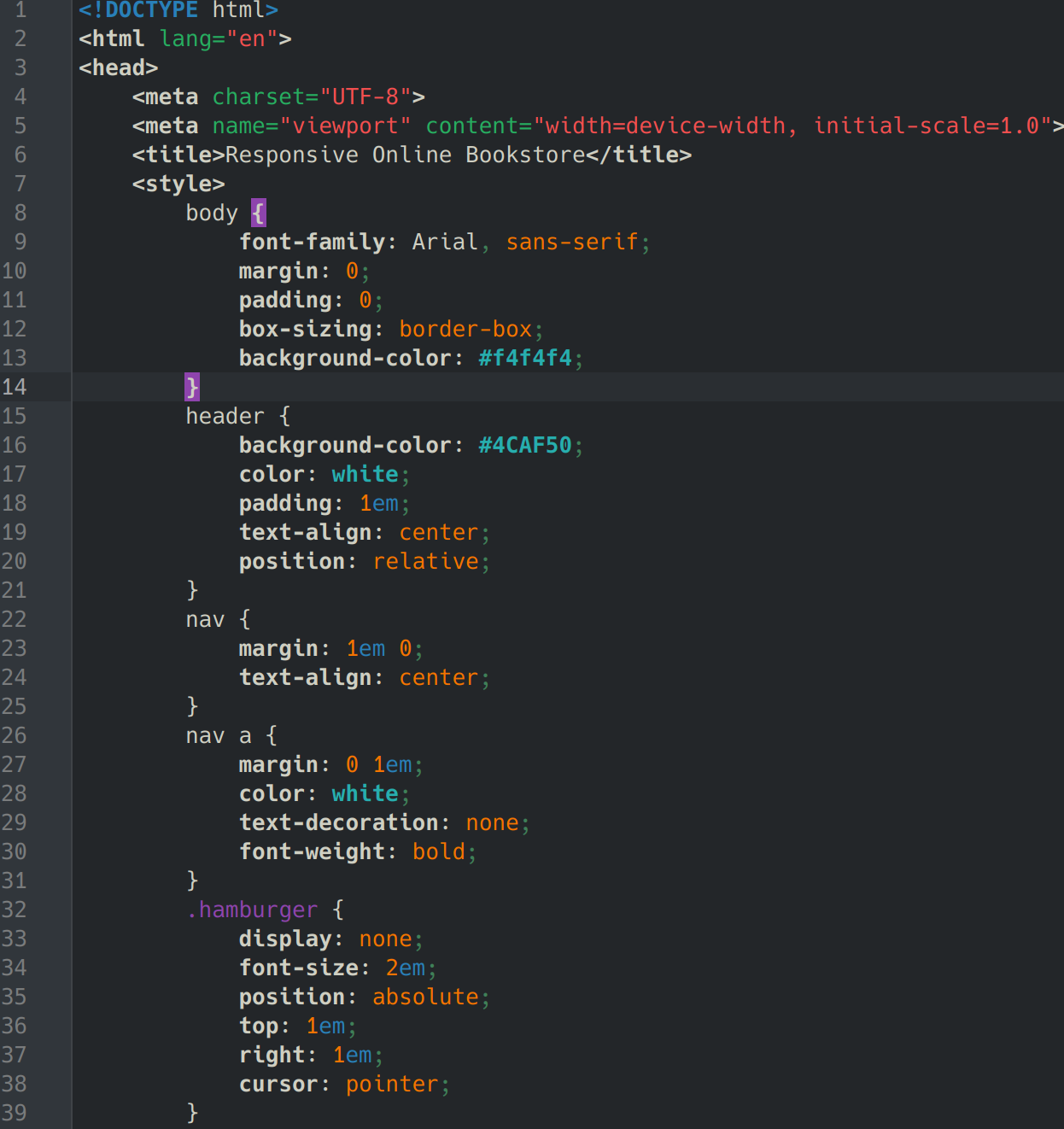
Create a basic web page for a fictional online bookstore using HTML, CSS, and JavaScript. The web page should have the following features:

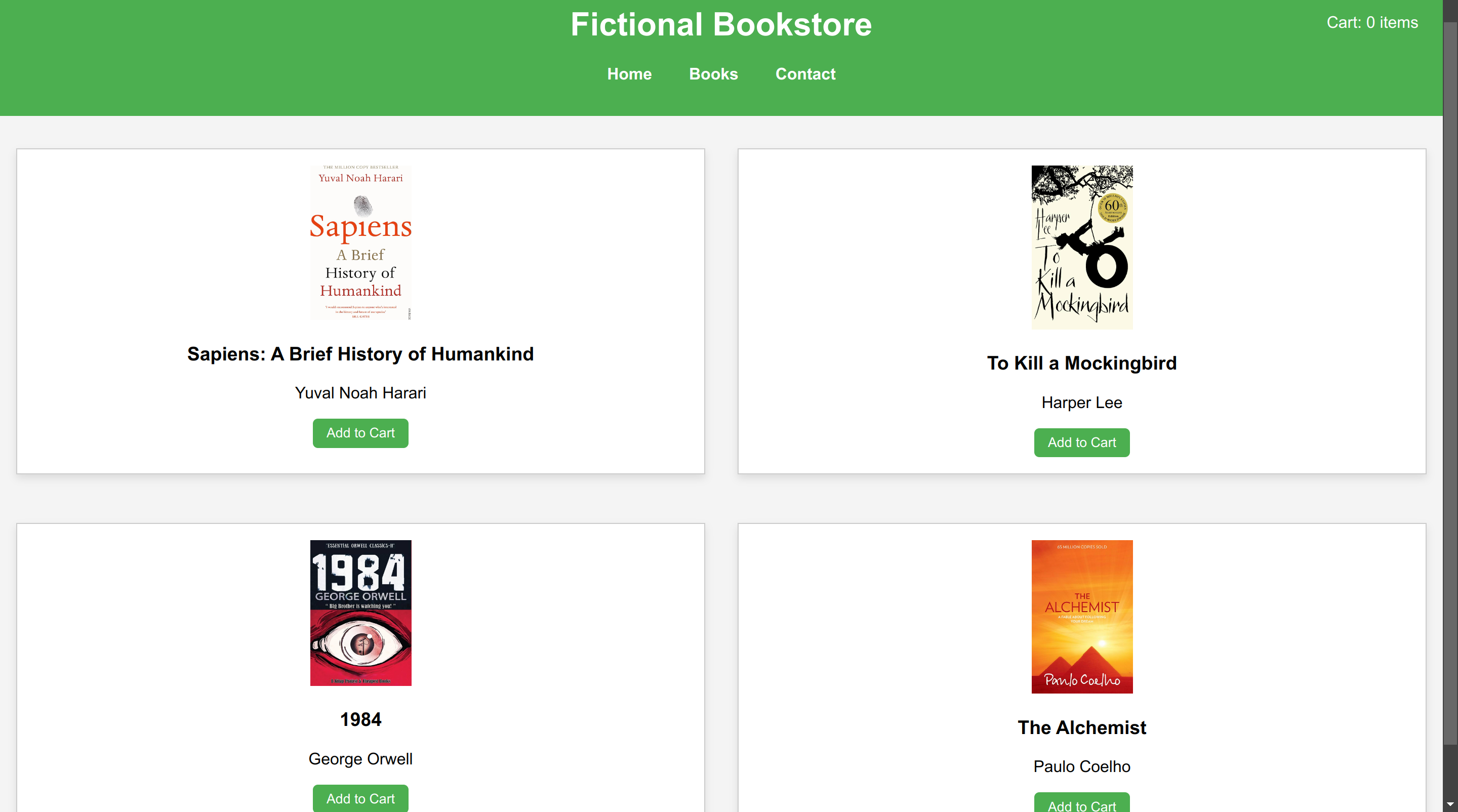
A header with the bookstore name and a navigation menu (Home, Books, Contact).

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.  
  
