

## **Task:** Creating an Interactive Quiz

**Description:** Create a simple quiz application using HTML, CSS, and JavaScript. The quiz should have multiple-choice questions, and the user should be able to select one option for each question. After answering all the questions, the quiz should display the total score achieved by the user.

### **Requirements:**

1. Design the quiz interface using HTML and CSS. Include a heading for the quiz, a question container, options for each question, and a submit button.
2. Define an array of objects in JavaScript, where each object represents a question with its options and correct answer.
3. Use JavaScript to dynamically populate the quiz interface with the questions and options from the array.
4. Implement interactivity using JavaScript:
  - When the user selects an option, highlight the selected option and deselect any previously selected option for that question.
  - Provide a way for the user to submit their answers.
  - Calculate the total score based on the user's answers and display it after submission.
5. Add CSS styles to make the quiz visually appealing, including hover effects, transitions, and any other enhancements you prefer.

### **Hints:**

- You can use event listeners in JavaScript to handle user interactions like selecting an option and submitting the quiz.
- Consider using CSS classes to apply styling changes based on user interactions.
- You may want to use HTML elements like `<div>`, `<ul>`, `<li>`, and `<button>` to structure your quiz interface.
- Plan your JavaScript code structure to handle the logic of displaying questions, tracking user answers, and calculating the score.