WEEK 1 MINI PROJECT

HTML

```
<!DOCTYPE html>
<html>
<head>
 <title>JavaScript Quiz App</title>
  <link rel="stylesheet" href="qz.css">
</head>
<body>
 <div class="container">
   <h1>Quiz App</h1>
   <div id="quiz"></div>
   <div id="result" class="result"></div>
   <button id="submit" class="button">Submit
    <button id="retry" class="button hide">Retry</button>
    <button id="showAnswer" class="button hide">Show Answer/button>
 </div>
 <script src="qz.js"></script>
</body>
</html>
</body>
</html>
```

CSS

```
@import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;700&display=sw
ap');

body {
   font-family: 'Poppins', sans-serif;
   background: #1b344b;
   display: flex;
   justify-content: center;
}

.container {
   width: 450px;
   padding: 20px;
```

```
margin-top: 80px;
  background-color: #f1e8e8;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
  border-radius: 20px;
h1 {
  text-align: center;
.question {
  font-weight: bold;
  margin-bottom: 10px;
.options {
  margin-bottom: 20px;
.option {
 display: block;
  margin-bottom: 10px;
.button {
  display: inline-block;
  padding: 10px 20px;
  background-color: #9ca9f1;
  color: #0c0c0c;
  border: none;
  cursor: pointer;
  font-size: 16px;
  border-radius: 4px;
  transition: background-color 0.3s;
  margin-right: 10px;
.button:hover {
  background-color: #112231;
.result {
  text-align: center;
  margin-top: 20px;
 font-weight: bold;
```

```
.hide{
  display: none;
}
```

JAVASCRIPT

```
const quizData = [
      question: 'Which of the following methods is used to access HTML elements
using Javascript:',
      options: ['getElementbyid()', 'getElementByClassName()', 'Both A and B'],
      answer: 'Both A and B',
   },
      question: 'Which of the following object is the main entry point to all
client-side JavaScript features and APIs?:',
      options: ['Position', 'Window', ' Location'],
      answer: 'Window',
    },
      question: 'Which of the following scoping type does JavaScript use?:',
      options: ['Sequential', 'Segmental', 'Lexical'],
      answer: ' Lexical',
    },
      question: 'What is the basic difference between JavaScript and Java?:',
      options: [' Functions are considered as fields', ' Functions are values,
and there is no hard distinction between methods and fields', 'There is no
difference'],
      answer: ' Functions are values, and there is no hard distinction between
methods and fields',
   },
      question: 'Which of the following type of a variable is volatile?',
      options: [
        'Mutable variable',
        'Dynamic variable',
        'Volatile variable',
```

```
'Immutable variable',
     ],
     answer: 'Mutable variable',
    },
     question: 'Why event handlers is needed in JS?:',
     options: ['Allows JavaScript code to alter the behaviour of windows', 'Adds
innerHTML page to the code', 'Performs handling of exceptions and occurrences'],
     answer: 'Allows JavaScript code to alter the behaviour of windows',
   },
 1;
 const quizContainer = document.getElementById('quiz');
 const resultContainer = document.getElementById('result');
 const submitButton = document.getElementById('submit');
 const retryButton = document.getElementById('retry');
 const showAnswerButton = document.getElementById('showAnswer');
 let currentQuestion = 0;
 let score = 0;
 let incorrectAnswers = [];
 function shuffleArray(array) {
   for (let i = array.length - 1; i > 0; i--) {
     const j = Math.floor(Math.random() * (i + 1));
     [array[i], array[j]] = [array[j], array[i]];
 function displayQuestion() {
   const questionData = quizData[currentQuestion];
   const questionElement = document.createElement('div');
   questionElement.className = 'question';
   questionElement.innerHTML = questionData.question;
   const optionsElement = document.createElement('div');
   optionsElement.className = 'options';
   const shuffledOptions = [...questionData.options];
   shuffleArray(shuffledOptions);
   for (let i = 0; i < shuffledOptions.length; i++) {</pre>
     const option = document.createElement('label');
     option.className = 'option';
```

```
const radio = document.createElement('input');
    radio.type = 'radio';
    radio.name = 'quiz';
    radio.value = shuffledOptions[i];
    const optionText = document.createTextNode(shuffledOptions[i]);
    option.appendChild(radio);
    option.appendChild(optionText);
    optionsElement.appendChild(option);
 quizContainer.innerHTML = '';
  quizContainer.appendChild(questionElement);
 quizContainer.appendChild(optionsElement);
function checkAnswer() {
  const selectedOption = document.querySelector('input[name="quiz"]:checked');
 if (selectedOption) {
    const answer = selectedOption.value;
    if (answer === quizData[currentQuestion].answer) {
      score++;
    } else {
      incorrectAnswers.push({
        question: quizData[currentQuestion].question,
        incorrectAnswer: answer,
        correctAnswer: quizData[currentQuestion].answer,
      });
    currentQuestion++;
    selectedOption.checked = false;
    if (currentQuestion < quizData.length) {</pre>
      displayQuestion();
    } else {
      displayResult();
function displayResult() {
  quizContainer.style.display = 'none';
  submitButton.style.display = 'none';
  retryButton.style.display = 'inline-block';
```

```
showAnswerButton.style.display = 'inline-block';
    resultContainer.innerHTML = `You scored ${score} out of ${quizData.length}!`;
  function retryQuiz() {
    currentQuestion = 0;
    score = 0;
    incorrectAnswers = [];
   quizContainer.style.display = 'block';
    submitButton.style.display = 'inline-block';
    retryButton.style.display = 'none';
    showAnswerButton.style.display = 'none';
    resultContainer.innerHTML = '';
   displayQuestion();
  function showAnswer() {
    quizContainer.style.display = 'none';
    submitButton.style.display = 'none';
    retryButton.style.display = 'inline-block';
    showAnswerButton.style.display = 'none';
    let incorrectAnswersHtml = '';
    for (let i = 0; i < incorrectAnswers.length; i++) {
     incorrectAnswersHtml += `
          <strong>Question:</strong> ${incorrectAnswers[i].question}<br>
          <strong>Your Answer:</strong>
${incorrectAnswers[i].incorrectAnswer}<br>
          <strong>Correct Answer:</strong> ${incorrectAnswers[i].correctAnswer}
       resultContainer.innerHTML = `
     You scored ${score} out of ${quizData.length}!
     Incorrect Answers:
     ${incorrectAnswersHtml}
  submitButton.addEventListener('click', checkAnswer);
  retryButton.addEventListener('click', retryQuiz);
  showAnswerButton.addEventListener('click', showAnswer);
```

OUTPUT



