WEEK 1

MINI PROJECT-1

SIMPLE JAVA SCRIPT QUIZ APP

HTML,CSS,Java Script:

```
 <!DOCTYPE html>

<html>
<head>
  <title>Quiz App</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h3>Questions:</h3>
    <div id="quiz"></div>
    <div id="result" class="result"></div>
    <button id="submit" class="button">Submit</button>
    <button id="retry" class="button hide">Retry</button>
    <button id="showAnswer" class="button hide">Show Answer</button>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

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

body {
  font-family: 'Poppins', sans-serif;
  background: #b9b3a9;
  display: flex;
  justify-content: center;
}

.container {
  width: 450px;
  padding: 20px;
  margin-top: 80px;
  background-color: #fff;
```

```
  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: #428bca;
  color: #fff;
  border: none;
  cursor: pointer;
  font-size: 16px;
  border-radius: 4px;
  transition: background-color 0.3s;
  margin-right: 10px;
}

.button:hover {
  background-color: #3071a9;
}

.result {
  text-align: center;
  margin-top: 20px;
  font-weight: bold;
}
```

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

```
const quizData = [
    {
      question: 'What is the non-primitive datatype in javsscript?',
      options: ['Undefined', 'Boolean', 'Object', 'null'],
      answer: 'Object',
    },
    {
      question: 'Which method is used to add element at the front of an array?',
      options: ['Push', 'Unshift', 'Shift', 'Pop'],
      answer: 'Unshift',
    },
    {
      question: 'Which data types has wrapper representation?',
      options: ['Null', 'Symbol', 'Undefined', 'Number'],
      answer: 'Number',
    },
    {
      question: 'What is the first name of javascript?',
      options: ['ABC', 'Ruby', 'Oak', 'Mocha'],
      answer: 'Mocha',
    },
    {
      question: 'Who invented javascript?',
      options: [
        'Brendan Eich',
        'Dennis Ritchie',
        ' Guido van Rossum',
        ' Tim Berners-Lee',
      ],
      answer: 'Brendan Eich',
    },
    {
      question: 'Which keyword in javascript can be re-declared and updated?',
      options: ['let', 'const', 'var', 'All the 3'],
      answer: 'var',
    },
    {
      question: 'Which tag is used to specify javascript?',
      options: [
        '<head>',
        '<body>',
```

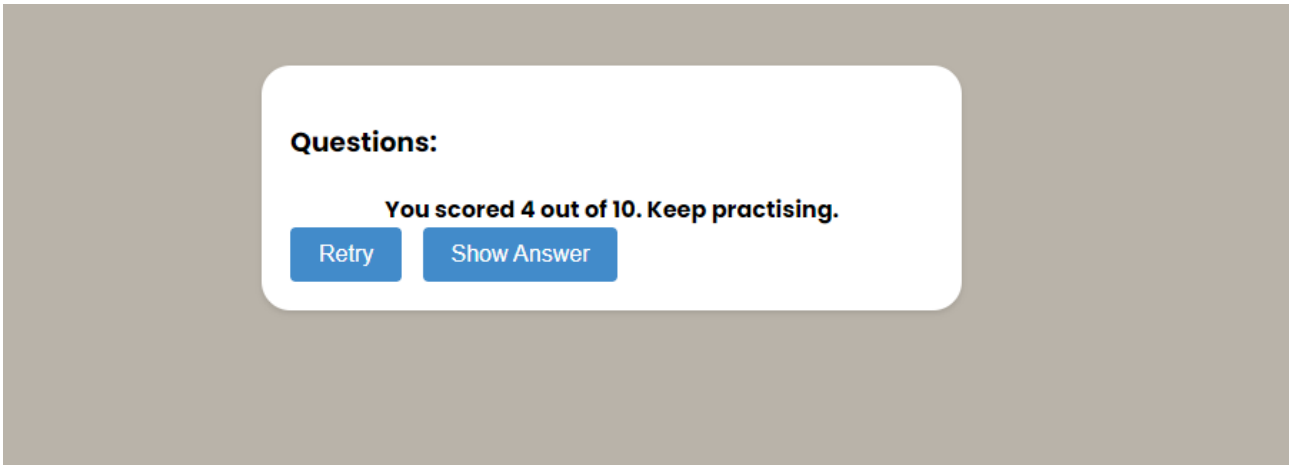
```
      '<script>',
      '<html>',
    ],
    answer: '<script>',
  },
  {
    question: '"delete" does not work when var keyword is used.',
    options: ['True', 'False', 'May be', 'None'],
    answer: 'True',
  },
  {
    question: 'What does the line "new Date().get Day() " prints ?',
    options: [
      'Current date ',
      'Current  day',
      'Current date and day',
      'Undefined',
    ],
    answer: 'Current day',
  },
  {
    question: 'Which keyword is used to invoke constructor in Java script?',
    options: ['finally', 'new', 'this', 'static'],
    answer: 'new',
  },
];

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() {
```

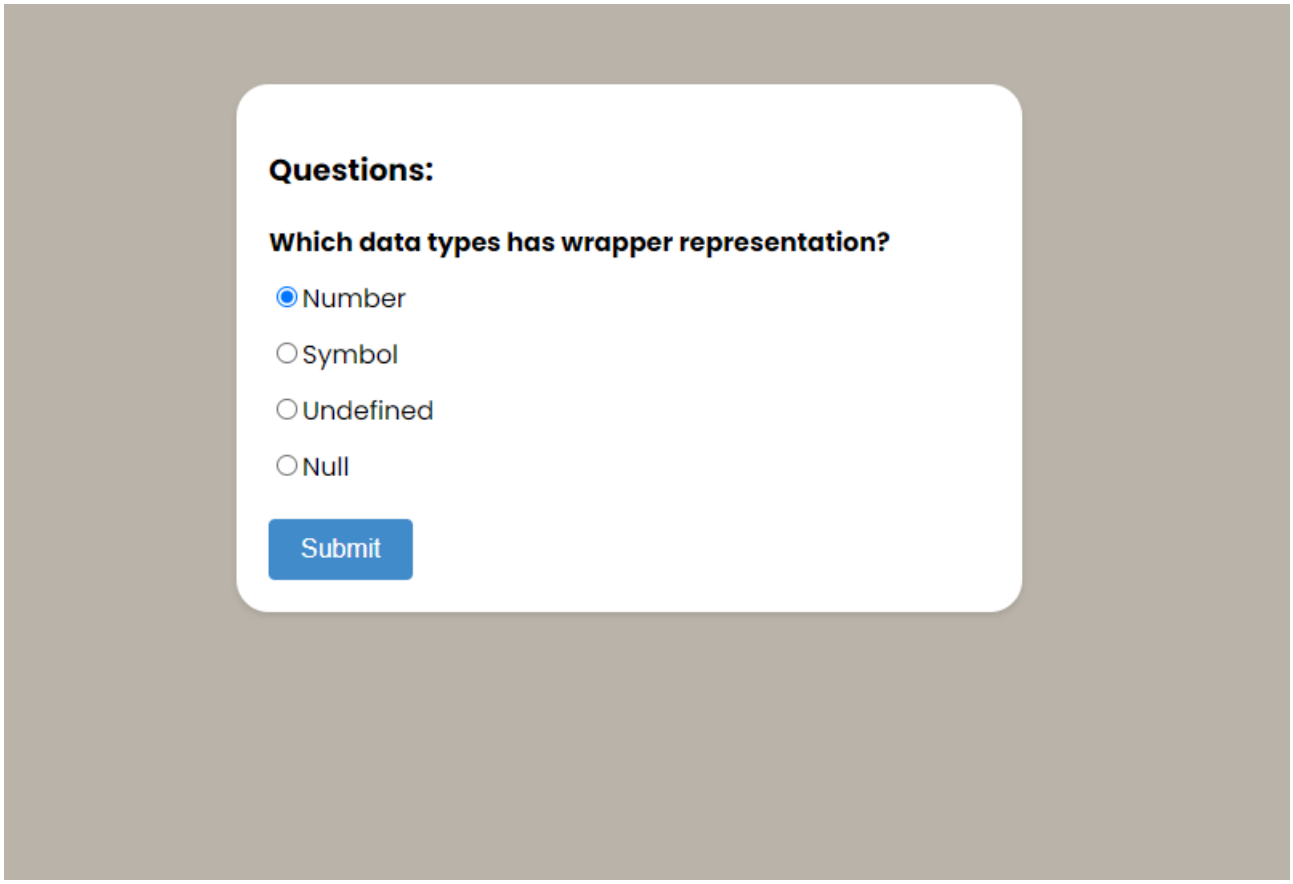
```
  const questionData = quizData[currentQuestion];

  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++) {
    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) {
        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}!`;
    if(score > 8){
        resultContainer.innerHTML = `You scored ${score} out of
${quizData.length}. Excellent!`;
    }
   else if(score > 5 && score < 8){
    resultContainer.innerHTML = `You scored ${score} out of ${quizData.length}.
Good job!`;
   }
   else{
    resultContainer.innerHTML = `You scored ${score} out of ${quizData.length}.
Keep practising.`;
   }
  }

  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 += `
        <p>
          <strong>Question:</strong> ${incorrectAnswers[i].question}<br>
          <strong>Your Answer:</strong>
${incorrectAnswers[i].incorrectAnswer}<br>
          <strong>Correct Answer:</strong> ${incorrectAnswers[i].correctAnswer}
        </p>
      `;
    }

    resultContainer.innerHTML = `
      <p>You scored ${score} out of ${quizData.length}!</p>
      <p>Incorrect Answers:</p>
      ${incorrectAnswersHtml}
    `;
  }

  submitButton.addEventListener('click', checkAnswer);
  retryButton.addEventListener('click', retryQuiz);
  showAnswerButton.addEventListener('click', showAnswer);

  displayQuestion();
```

OUTPUT SCREENSHOTS:




Questions:
Which data types has wrapper representation?
Number
Symbol
Undefined
Null
Submit