**ADVANCE WEB TECHNOLOGY LAB**

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| --- | --- |
| **Name of the Student** | **:Atharva Gaikwad** |
| **Class / Div.** | **: SY / C** |
| **Roll No.** | **: 73** |
| **Assignment No. : 02** | |
| **Objective** | **Create an interactive quiz application using HTML, CSS, and JavaScript. The quiz should have the following features:**  **1. Display a set of multiple-choice questions with options. 2. Allow users to select an option for each question. 3. Display the total number of correct answers after submitting the quiz. 4. Include a "Submit" button to check the answers** |

**Program:**

**HTML:**

<!DOCTYPE html>

<html lang="en">

  <head>

    <link rel="stylesheet" href="MCQs.css" />

    <title>MCQs</title>

  </head>

  <body>

    <div class="box">

      <p class="heading">Simple Quiz</p>

      <div class="line"></div>

      <div class="questions">

        <div class="js-question question"></div>

        <div onclick="correct(0);" class="js-ans ans" value="0"></div>

        <div onclick="correct(1);" class="js-ans ans" value="1"></div>

        <div onclick="correct(2);" class="js-ans ans" value="2"></div>

        <div onclick="correct(3);" class="js-ans ans" value="3"></div>

      </div>

      <button onclick="display();" class="Next">Next</button>

      <!-- Score display -->

      <div class="score-container" style="display: none;">

        <p class="score-text"><span class="score">0</span></p>

      </div>

    </div>

    <script src="MCQs.js"></script>

  </body>

</html>

**CSS:**

  \* {

    color: #000000; /\* Adjusted text color for better visibility \*/

    font-family: Arial;

  }

  body {

    background-color: #709907; /\* Dark background color \*/

  }

  .box {

    height: 600px;

    width: 1000px;

    background-color: #03636e; /\* Darker background color \*/

    border-radius: 8px;

    position: absolute;

    left: 50%;

    top: 50%;

    transform: translate(-50%, -50%);

    box-shadow: -39px 32px 100px rgba(0, 0, 0, 0.5); /\* Adjusted box shadow \*/

  }

  .heading {

    font-weight: 600;

    font-size: 45px;

    margin-left: 40px;

  }

  .line {

    background-color: #000000; /\* Adjusted line color for better contrast \*/

    width: 941px;

    height: 2px;

    position: absolute;

    left: 15px;

    top: 115px;

  }

  .questions {

    width: 914px;

    margin-left: 29px;

    border-radius: inherit;

    height: 437px;

  }

  .question {

    font-size: 30px;

    margin-left: -14px;

    margin-bottom: 10px;

    font-weight: 700;

  }

  .ans {

    width: 900px;

    border-radius: 6px;

    border: 2px solid #000000; /\* Adjusted border color \*/

    margin-bottom: 10px;

    color: #000000; /\* Adjusted text color \*/

    padding-left: 20px; /\* Removed duplicate padding-left \*/

    padding-top: 20px;

    padding-bottom: 20px;

    font-size: 20px;

    font-weight: 600;

    transition: all 0.5s;

    text-align: left;

  }

  .ans:hover {

    background-color: #677636; /\* Darker background color on hover \*/

    color: #ffffff; /\* Text color on hover \*/

    cursor: pointer;

  }

  .Next {

    font-size: 24px;

    height: 51px;

    width: 189px;

    background-color: #51af0e; /\* Adjusted button color \*/

    color: #ffffff;

    position: absolute;

    border: none;

    bottom: 32px;

    left: 40%;

    cursor: pointer;

    border-radius: 4px;

  }

  .Next:active {

    background-color: #0d47a1; /\* Darker color on active state \*/

  }

  .correct-ans {

    background-color: rgba(2, 198, 5, 0.58); /\* Adjusted color for correct answer \*/

  }

  .wrong-ans {

    background-color: rgba(255, 0, 0, 0.616); /\* Adjusted color for wrong answer \*/

  }

  /\* Existing CSS \*/

  \* {

    color: #000000; /\* Adjusted text color for better visibility \*/

    font-family: Arial;

  }

  body {

    background-color: #709907; /\* Dark background color \*/

  }

  .box {

    height: 600px;

    width: 1000px;

    background-color: #03636e; /\* Darker background color \*/

    border-radius: 8px;

    position: absolute;

    left: 50%;

    top: 50%;

    transform: translate(-50%, -50%);

    box-shadow: -39px 32px 100px rgba(0, 0, 0, 0.5); /\* Adjusted box shadow \*/

  }

  .heading {

    font-weight: 600;

    font-size: 45px;

    margin-left: 40px;

  }

  .line {

    background-color: #000000; /\* Adjusted line color for better contrast \*/

    width: 941px;

    height: 2px;

    position: absolute;

    left: 15px;

    top: 115px;

  }

  .questions {

    width: 914px;

    margin-left: 29px;

    border-radius: inherit;

    height: 437px;

  }

  .question {

    font-size: 30px;

    margin-left: -14px;

    margin-bottom: 10px;

    font-weight: 700;

  }

  .ans {

    width: 900px;

    border-radius: 6px;

    border: 2px solid #000000; /\* Adjusted border color \*/

    margin-bottom: 10px;

    color: #000000; /\* Adjusted text color \*/

    padding-left: 20px; /\* Removed duplicate padding-left \*/

    padding-top: 20px;

    padding-bottom: 20px;

    font-size: 20px;

    font-weight: 600;

    transition: all 0.5s;

    text-align: left;

  }

  .ans:hover {

    background-color: #677636; /\* Darker background color on hover \*/

    color: #ffffff; /\* Text color on hover \*/

    cursor: pointer;

  }

  .Next {

    font-size: 24px;

    height: 51px;

    width: 189px;

    background-color: #51af0e; /\* Adjusted button color \*/

    color: #ffffff;

    position: absolute;

    border: none;

    bottom: 32px;

    left: 40%;

    cursor: pointer;

    border-radius: 4px;

  }

  .Next:active {

    background-color: #0d47a1; /\* Darker color on active state \*/

  }

  .correct-ans {

    background-color: rgba(2, 198, 5, 0.58); /\* Adjusted color for correct answer \*/

  }

  .wrong-ans {

    background-color: rgba(255, 0, 0, 0.616); /\* Adjusted color for wrong answer \*/

  }

  /\* New CSS for score display \*/

  .score-container {

    display: none;

    position: absolute;

    top: 50%;

    left: 50%;

    transform: translate(-50%, -50%);

  }

  .score-text {

    font-size: 30px;

    font-weight: bold;

    color: #000000; /\* Text color for score \*/

  }

  .score {

    font-size: 36px;

    color: #000000; /\* Text color for score \*/

  }

**JAVASCRIPT:**

const questions = [

  {

    question: "What is the Capital of France?",

    options: ["Paris", "London", "Berlin", "Rome"],

    correct: "Paris",

  },

  {

    question: "What is the Currency of Japan?",

    options: ["Yuan", "Yen", "Dollar", "Euro"],

    correct: "Yen",

  },

  {

    question: "What is the National Animal of Australia?",

    options: ["Kangaroo", "Koala", "Emu", "Platypus"],

    correct: "Kangaroo",

  },

  {

    question: "What is the National Sport of Canada?",

    options: ["Lacrosse", "Ice Hockey", "Soccer", "Basketball"],

    correct: "Ice Hockey",

  },

];

let score = 0;

let nextcount = 0;

let currentquestion = 0;

let hasSelected = true;

let result = 0;

display();

function correct(user) {

  if (!hasSelected) {

    return;

  } else {

    currentquestion--;

    hasSelected = !hasSelected;

    let ans = document.querySelector(`.js-ans[value = "${user}"]`);

    if (

      questions[currentquestion].options[user] ===

      questions[currentquestion].correct

    ) {

      ans.classList.add("correct-ans");

      result++;

    } else {

      ans.classList.add("wrong-ans");

      for (let i = 0; i < 4; i++) {

        ans = document.querySelector(`.js-ans[value = "${i}"]`);

        if (ans.innerHTML === questions[currentquestion].correct) {

          ans.classList.add("correct-ans");

          break;

        }

      }

    }

    currentquestion++;

  }

}

function display() {

  hasSelected = true;

  const question = document.querySelector(".js-question");

  if (currentquestion < questions.length) {

    const currquestion = questions[currentquestion].question;

    question.innerHTML = `${currentquestion + 1}. ${currquestion}`;

    for (let i = 0; i < 4; i++) {

      let ans = document.querySelector(`.js-ans[value = "${i}"] `);

      ans.innerHTML = questions[currentquestion].options[i];

      ans.classList.remove("correct-ans", "wrong-ans");

    }

    currentquestion++;

  } else {

    // Hide questions and display score

    document.querySelector(".questions").style.display = "none";

    document.querySelector(".score-container").style.display = "block";

    calculateScore();

  }

}

function calculateScore() {

  score = `${result}/${currentquestion}`; // Displaying correct answers out of total questions

  document.querySelector(".score").textContent = `Your score: ${score}`;

}

**Output:**



