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**DEPARTMENT OF**

**INFORMATION SCIENCE AND ENGINEERING**

**Project Report**

**On**

**HYBRID WEB DEVELOPMENT**

**BrainTease-Ignite your Intellect**

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**Ramaiah Institute of Technology**

**(Autonomous Institute, Affiliated to VTU)**

**MSR Nagar, MSRIT Post, Bangalore-560054**

**October – November, 2023**

**INTERNSHIP ASSESSMENT**

**----------- Internship Title ---------------**

**INT411: Intra Institutional Internship**

|  |  |  |  |
| --- | --- | --- | --- |
| **SL**  **No.** | **Component** | **Maximum Marks** | **Marks Obtained** |
| 1 | Continuous Evaluation | 50 |  |
| 2 | Presentation | 20 |  |
| 3 | Report | 30 |  |
| **Total Marks** | | 100 |  |

**Signature of Student         Signature of Faculty Coordinator**

**Problem Statement**

* Designing and implementing an engaging and user-friendly online quiz platform that caters to a diverse range of topics.
* The platform should allow users to easily create and take quizzes.
* It should provide a seamless experience for both quiz creators and participants, ensuring efficient quiz management, and real-time result tracking.
* The goal is to create a robust and scalable web application that meets the needs of quiz enthusiasts and educators alike.
* It outlines the task of creating a quiz application, providing flexibility for creativity in design and implementation.

**Introduction:**

* **The Quiz Application is a web-based tool designed to facilitate interactive quizzes, allowing users to answer a series of multiple-choice questions and receive immediate feedback on their responses.**
* **This application is implemented using HTML for structure, CSS for styling and JavaScript for dynamic functionality.**

**Working:**

***Question Data:***

* **Create an array of objects, where each object represents a quiz question.**
* **Each question should have:** 
  + **A textual question statement.**
  + **An array of choices (options) for the user to select from.**
  + **The correct answer (denoted by a letter, e.g., "A", "B", etc.).**
  + **A fun fact related to the question.**

***User Interface:***

* **Create a HTML page with placeholders for displaying the current question, answer choices, and feedback.**
* **Dynamically load the question and answer choices into the HTML using JavaScript.**
* **Provide radio buttons for the user to select their answer.**

***User Interaction:***

* **Implement JavaScript functions to handle user interactions:** 
  + **Load the first question when the page loads.**
  + **Check the user's selected answer when they submit the form.**
  + **Provide immediate feedback on whether the answer is correct or not.**
  + **Keep track of the user's score.**
* **loadQuestion(): Dynamically loads the current question and answer choices into the HTML.**
* **checkAnswer(): Verifies the user's selected answer upon form submission and provides immediate feedback on correctness.**
* **displayResult(): Shows the user's final score upon completing the quiz.**

***Quiz Flow:***

* **Allow the user to progress through the quiz, displaying one question at a time.**
* **After answering all questions, display the user's final score.**

***Style and Layout:***

* **CSS styling is applied to enhance the visual appeal and user experience.**
* **The layout is designed to be user-friendly, with attention to readability and aesthetics.**

**Purpose:**

* **The primary purpose of the Quiz Application is to engage users in an interactive and educational manner.**
* **It serves as a versatile tool for creating quizzes on diverse topics, ranging from educational subjects to fun trivia.**

**Usage:**

* **Educational Institutions: Teachers can use the Quiz Application to create subject-specific quizzes for students, reinforcing classroom learning.**
* **Online Learning Platforms: Incorporate quizzes into online courses to assess and reinforce knowledge.**
* **Corporate Training: Develop quizzes for employee training programs to assess comprehension.**
* **Recreational Use: Users can enjoy the application for recreational purposes, challenging themselves or friends with interesting quizzes.**

//main.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Online Quiz</title>

    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <div class="quiz-container">

        <h1> Welcome to the Online Quiz</h1>

        <div id="selection">

         <h2>Take General Quiz</h2>

        <a href="./quiz.html">Take Quiz</a>

         <h2>Create Online Quiz</h2>

         <a href="./addq.html ">Create Quiz</a>

    </div>

    </div>

    </body>

</html>

//styles.css

body {

    background-color: black;

    font-family: Arial, sans-serif;

    text-align: center;

}

#quizForm

{

    text-align: justify;

}

#submit{

    text-align: center;

}

.quiz-container {

    max-width: 600px;

    margin: 0 auto;

    margin-top: 50px;

    padding: 20px;

    border: 10px solid ivory;

    background-color: rgb(222, 14, 222);

}

label {

    display: block;

    margin-bottom: 10px;

}

#feedback {

    margin-top: 20px;

    font-weight: bold;

}

//quiz.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Online Quiz</title>

    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <div class="quiz-container">

        <h1>Online Quiz</h1>

        <div id="selection">

            <h2>Select Your Category</h2>

            <h2><a href="./geo.html">Geography</a> <br>

            <a href="./history.html">History</a> <br>

            <a href="./entertainment.html">Entertainment</a> <br>

            <a href="./tech.html">Technology</a> <br>

            <a href="./sport.html">Sport</a></h2>

        </div>

    </div>

    </body>

</html>

//addq.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Create Your Own Quiz</title>

    <style>

        body {

            font-family: Arial, sans-serif;

        }

        form {

            max-width: 600px;

            margin: 20px auto;

        }

        label {

            display: block;

            margin-bottom: 8px;

        }

        input, button {

            margin-bottom: 16px;

        }

    </style>

</head>

<body>

<form id="quizForm">

    <label for="question">Question:</label>

    <input type="text" id="question" name="question" required>

    <label for="answer">Answer:</label>

    <input type="text" id="answer" name="answer" required>

    <button type="button" onclick="addQuestion()">Add Question</button>

    <button type="button" onclick="generateQuiz()" id="generateBtn" disabled>Generate Quiz</button>

</form>

<div id="quizOutput"></div>

<script>

    let quizData = [];

    function addQuestion() {

        const questionInput = document.getElementById('question');

        const answerInput = document.getElementById('answer');

        const question = questionInput.value.trim();

        const answer = answerInput.value.trim();

        if (question !== '' && answer !== '') {

            quizData.push({ question, answer });

            questionInput.value = '';

            answerInput.value = '';

            alert('Question added!');

            document.getElementById('generateBtn').disabled = false;

        } else {

            alert('Please enter both a question and an answer.');

        }

    }

    function generateQuiz() {

        const quizOutput = document.getElementById('quizOutput');

        if (quizData.length > 0) {

            let outputHTML = '<h2>Your Quiz:</h2>';

            quizData.forEach((item, index) => {

                outputHTML += `<p><strong>Question ${index + 1}:</strong> ${item.question}<br><strong>Answer:</strong> ${item.answer}</p>`;

            });

            quizOutput.innerHTML = outputHTML;

        } else {

            alert('Please add at least one question before generating the quiz.');

        }

    }

</script>

</body>

</html>

//tech.html – All the other HTML codes follow the same pattern, only differing in the JS source

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Online Quiz</title>

    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <div class="quiz-container">

        <h1>Online Quiz</h1>

        <div id="question"></div>

        <form id="quizForm">

            <label><input type="radio" name="choice" value="A"> <span id="choiceA"></span></label><br>

            <label><input type="radio" name="choice" value="B"> <span id="choiceB"></span></label><br>

            <label><input type="radio" name="choice" value="C"> <span id="choiceC"></span></label><br>

            <label><input type="radio" name="choice" value="D"> <span id="choiceD"></span></label><br>

            <center><input id="submit"type="submit" value="Submit"></center>

        </form>

        <div id="feedback"></div>

    </div>

    <script src="tech.js"></script>

    </body>

</html>

//tech.js

const questions = [

    {

        question: "URL stands for \_\_\_\_\_\_\_\_\_\_\_.",

        choices: ["Uniform Retention Location", "Uniform Resource Locator", "Universal Resource List", "Uniform Retention Label"],

        correctAnswer: "B",

        funFact :"Did you know?&#129300; Tim Berners-Lee invented it in 1994."

    },

    {

        question: "Who is known as the first computer programmer?",

        choices: ["Charles Babbage", "Tommy Flowers", "Alan Turing", "Ada Lovelace"],

        correctAnswer: "D",

        funFact :"Did you know?&#129300; She was the daughter of the famous poet Lord Byron."

    },

    {

        question: "What is the largest social networking platform in the world?",

        choices: ["Facebook", "Instagram", "WhatsApp", "YouTube"],

        correctAnswer: "A",

        funFact :"Did you know?&#129300; 37% of the world's population(2.9 billion) are Facebook users."

    },

    {

        question: "Who is the CEO of OpenAI?",

        choices: ["Mira Murati", "Elon Musk", "Sam Altman", "Larry Page"],

        correctAnswer: "C",

        funFact :"Did you know?&#129300; He was briefly the CEO of Reddit."

    }

];

let currentQuestion = 0;

let score = 0;

const questionElement = document.getElementById("question");

const choiceAElement = document.getElementById("choiceA");

const choiceBElement = document.getElementById("choiceB");

const choiceCElement = document.getElementById("choiceC");

const choiceDElement = document.getElementById("choiceD");

const feedbackElement = document.getElementById("feedback");

function loadQuestion() {

    const current = questions[currentQuestion];

    questionElement.textContent = current.question;

    choiceAElement.textContent = current.choices[0];

    choiceBElement.textContent = current.choices[1];

    choiceCElement.textContent = current.choices[2];

    choiceDElement.textContent = current.choices[3];

}

function checkAnswer() {

    const selectedChoice = document.querySelector('input[name="choice"]:checked');

    if (!selectedChoice) {

        feedbackElement.textContent = "Please select an option";

        return;

    }

    const userAnswer = selectedChoice.value;

    const current = questions[currentQuestion];

    if (userAnswer === current.correctAnswer) {

        score++;

        feedbackElement.innerHTML = `Correct! ${current.funFact} `;

    } else {

        feedbackElement.innerHTML = `Wrong &#128556; The correct answer was "${current.correctAnswer}". Try Again, Champ!`;

    }

    document.getElementById("quizForm").reset();

    currentQuestion++;

    if (currentQuestion < questions.length) {

        loadQuestion();

    } else {

        displayResult();

    }

}

function displayResult() {

    questionElement.textContent = `Quiz Completed! Your Score: ${score} out of ${questions.length}`;

    document.getElementById("quizForm").style.display = "none";

}

loadQuestion();

document.getElementById("quizForm").addEventListener("submit", function (e) {

    e.preventDefault();

    checkAnswer();

});

//sport.js

const questions = [

    {

        question: "Who won the 2010 FIFA WC?",

        choices: ["Brazil", "Argentina", "Germany", "Spain"],

        correctAnswer: "D",

        funFact :"Did you know?&#129300; Spain became the first team to win the World Cup after losing their first match."

    },

    {

        question: "Who is the highest wicket taker in IPL history?",

        choices: ["L Malinga", "Y Chahal", "DJ Bravo", "R Jadeja"],

        correctAnswer: "B",

        funFact :"Did you know?&#129300; Chahal represented India at the World Youth Chess Championship."

    },

    {

        question: "Who holds the record for the most missed shots in the NBA?",

        choices: ["Kobe Bryant", "LeBron James", "Larry Bird", "Magic Johnson"],

        correctAnswer: "A",

        funFact :"Did you know?&#129300; Kobe played for the LA Lakers his entire professional career."

    },

    {

        question: "Who has won the French Open the most number of times?",

        choices: ["N Djokovic", "R Federer", "R Nadal", "P Sampras"],

        correctAnswer: "C",

        funFact :"Did you know?&#129300; Nadal has won it a record 14 times."

    }

];

let currentQuestion = 0;

let score = 0;

const questionElement = document.getElementById("question");

const choiceAElement = document.getElementById("choiceA");

const choiceBElement = document.getElementById("choiceB");

const choiceCElement = document.getElementById("choiceC");

const choiceDElement = document.getElementById("choiceD");

const feedbackElement = document.getElementById("feedback");

function loadQuestion() {

    const current = questions[currentQuestion];

    questionElement.textContent = current.question;

    choiceAElement.textContent = current.choices[0];

    choiceBElement.textContent = current.choices[1];

    choiceCElement.textContent = current.choices[2];

    choiceDElement.textContent = current.choices[3];

}

function checkAnswer() {

    const selectedChoice = document.querySelector('input[name="choice"]:checked');

    if (!selectedChoice) {

        feedbackElement.textContent = "Please select an option";

        return;

    }

    const userAnswer = selectedChoice.value;

    const current = questions[currentQuestion];

    if (userAnswer === current.correctAnswer) {

        score++;

        feedbackElement.innerHTML = `Correct! ${current.funFact} `;

    } else {

        feedbackElement.innerHTML = `Wrong &#128556; The correct answer was "${current.correctAnswer}". Try Again, Champ!`;

    }

    document.getElementById("quizForm").reset();

    currentQuestion++;

    if (currentQuestion < questions.length) {

        loadQuestion();

    } else {

        displayResult();

    }

}

function displayResult() {

    questionElement.textContent = `Quiz Completed! Your Score: ${score} out of ${questions.length}`;

    document.getElementById("quizForm").style.display = "none";

}

loadQuestion();

document.getElementById("quizForm").addEventListener("submit", function (e) {

    e.preventDefault();

    checkAnswer();

});

//history.js

const questions = [

    {

        question: "Who was the India king who opposed Alexander in the Battle of the Hydaspes?",

        choices: ["Ambhi Kumar", "Mahanandin", "Porus", "Dhanananda"],

        correctAnswer: "C",

        funFact :"Did you know?&#129300; Alexander was impressed by Porus' bravery and restored his kingdom to him."

    },

    {

        question: "\_\_\_\_\_\_\_\_\_ became the first Asian city to get electric street lights.",

        choices: ["Tokyo", "Bombay", "Beijing", "Bangalore"],

        correctAnswer: "D",

        funFact :"Did you know?&#129300; On August 5, 1905, the first lights came on around KR Market."

    },

    {

        question: "Who established the Mughal Empire in India?",

        choices: ["Humayun", "Babur", "Aurangzeb", "Akbar"],

        correctAnswer: "B",

        funFact :"Did you know?&#129300; Babur was a descendant of Timur and Genghis Khan."

    },

    {

        question: "Who was the first women ruler of India?",

        choices: ["Razia Sultana", "Noorjahan", "Rani Padmini", "Rani Lakshmibai"],

        correctAnswer: "A",

        funFact :"Did you know?&#129300; She succeeded her father Shams-ud-din Iltutmish to the Delhi Sultanate in 1236."

    }

];

let currentQuestion = 0;

let score = 0;

const questionElement = document.getElementById("question");

const choiceAElement = document.getElementById("choiceA");

const choiceBElement = document.getElementById("choiceB");

const choiceCElement = document.getElementById("choiceC");

const choiceDElement = document.getElementById("choiceD");

const feedbackElement = document.getElementById("feedback");

function loadQuestion() {

    const current = questions[currentQuestion];

    questionElement.textContent = current.question;

    choiceAElement.textContent = current.choices[0];

    choiceBElement.textContent = current.choices[1];

    choiceCElement.textContent = current.choices[2];

    choiceDElement.textContent = current.choices[3];

}

function checkAnswer() {

    const selectedChoice = document.querySelector('input[name="choice"]:checked');

    if (!selectedChoice) {

        feedbackElement.textContent = "Please select an option";

        return;

    }

    const userAnswer = selectedChoice.value;

    const current = questions[currentQuestion];

    if (userAnswer === current.correctAnswer) {

        score++;

        feedbackElement.innerHTML = `Correct! ${current.funFact} `;

    } else {

        feedbackElement.innerHTML = `Wrong &#128556; The correct answer was "${current.correctAnswer}". Try Again, Champ!`;

    }

    document.getElementById("quizForm").reset();

    currentQuestion++;

    if (currentQuestion < questions.length) {

        loadQuestion();

    } else {

        displayResult();

    }

}

function displayResult() {

    questionElement.textContent = `Quiz Completed! Your Score: ${score} out of ${questions.length}`;

    document.getElementById("quizForm").style.display = "none";

}

loadQuestion();

document.getElementById("quizForm").addEventListener("submit", function (e) {

    e.preventDefault();

    checkAnswer();

});

//geo.js

const questions = [

    {

        question: "What is the capital of India?",

        choices: ["Kolkata", "New Delhi", "Bangalore", "Mumbai"],

        correctAnswer: "B",

        funFact :"Did you know?&#129300; New Delhi is currently the second most populated city in the world."

    },

    {

        question: "Which is the largest landlocked country?",

        choices: ["Kazakhstan", "Mongolia", "Congo", "Turkmenistan"],

        correctAnswer: "A",

        funFact :"Did you know?&#129300; Kazakhstan has the longest border in the world."

    },

    {

        question: "In which country is Machu Picchu located?",

        choices: ["Chile", "Venezuela", "Peru", "Ecuador"],

        correctAnswer: "C",

        funFact :"Did you know?&#129300; A no-fly zone exists above this UNESCO site."

    },

    {

        question: "Which is the widest river in the world?",

        choices: ["Mississippi", "Yangtze", "Nile", "Amazon"],

        correctAnswer: "D",

        funFact :"Did you know?&#129300; At its widest point, it measured 11 kms."

    }

];

let currentQuestion = 0;

let score = 0;

const questionElement = document.getElementById("question");

const choiceAElement = document.getElementById("choiceA");

const choiceBElement = document.getElementById("choiceB");

const choiceCElement = document.getElementById("choiceC");

const choiceDElement = document.getElementById("choiceD");

const feedbackElement = document.getElementById("feedback");

function loadQuestion() {

    const current = questions[currentQuestion];

    questionElement.textContent = current.question;

    choiceAElement.textContent = current.choices[0];

    choiceBElement.textContent = current.choices[1];

    choiceCElement.textContent = current.choices[2];

    choiceDElement.textContent = current.choices[3];

}

function checkAnswer() {

    const selectedChoice = document.querySelector('input[name="choice"]:checked');

    if (!selectedChoice) {

        feedbackElement.textContent = "Please select an option";

        return;

    }

    const userAnswer = selectedChoice.value;

    const current = questions[currentQuestion];

    if (userAnswer === current.correctAnswer) {

        score++;

        feedbackElement.innerHTML = `Correct! ${current.funFact} `;

    } else {

        feedbackElement.innerHTML = `Wrong &#128556; The correct answer was "${current.correctAnswer}". Try Again, Champ!`;

    }

    document.getElementById("quizForm").reset();

    currentQuestion++;

    if (currentQuestion < questions.length) {

        loadQuestion();

    } else {

        displayResult();

    }

}

function displayResult() {

    questionElement.textContent = `Quiz Completed! Your Score: ${score} out of ${questions.length}`;

    document.getElementById("quizForm").style.display = "none";

}

loadQuestion();

document.getElementById("quizForm").addEventListener("submit", function (e) {

    e.preventDefault();

    checkAnswer();

});

//entertainment.js

const questions = [

    {

        question: "What is the name of Maroon 5's lead singer?",

        choices: ["Adam Levine", "Chris Martin", "Matt Flynn", "Justin Timberlake"],

        correctAnswer: "A",

        funFact :"Did you know?&#129300; He co-founded Maroon 5 in 1994, while he was still in high school."

    },

    {

        question: "Which was the first Indian movie nominated for an Oscar?",

        choices: ["Salaam Bombay", "Sholay", "Mother India", "Lagaan"],

        correctAnswer: "C",

        funFact :"Did you know?&#129300;  It lost by just one vote in 1958 for Best Film in Foreign Language category."

    },

    {

        question: "In which year was Doordarshan established?",

        choices: ["1953", "1962", "1956", "1959"],

        correctAnswer: "D",

        funFact :"Did you know?&#129300; It was the only TV channel in pre Liberalisation India."

    },

    {

        question: "Who won the Academy Award for Best Actor in 2022?",

        choices: ["Rami Malek", "Will Smith", "Anthony Hopkins", "Joaquin Phoenix"],

        correctAnswer: "B",

        funFact :"Did you know?&#129300; The win was overshadowed by the Chris Rock-Will Smith slapping incident."

    }

];

let currentQuestion = 0;

let score = 0;

const questionElement = document.getElementById("question");

const choiceAElement = document.getElementById("choiceA");

const choiceBElement = document.getElementById("choiceB");

const choiceCElement = document.getElementById("choiceC");

const choiceDElement = document.getElementById("choiceD");

const feedbackElement = document.getElementById("feedback");

function loadQuestion() {

    const current = questions[currentQuestion];

    questionElement.textContent = current.question;

    choiceAElement.textContent = current.choices[0];

    choiceBElement.textContent = current.choices[1];

    choiceCElement.textContent = current.choices[2];

    choiceDElement.textContent = current.choices[3];

}

function checkAnswer() {

    const selectedChoice = document.querySelector('input[name="choice"]:checked');

    if (!selectedChoice) {

        feedbackElement.textContent = "Please select an option";

        return;

    }

    const userAnswer = selectedChoice.value;

    const current = questions[currentQuestion];

    if (userAnswer === current.correctAnswer) {

        score++;

        feedbackElement.innerHTML = `Correct! ${current.funFact} `;

    } else {

        feedbackElement.innerHTML = `Wrong &#128556; The correct answer was "${current.correctAnswer}". Try Again, Champ!`;

    }

    document.getElementById("quizForm").reset();

    currentQuestion++;

    if (currentQuestion < questions.length) {

        loadQuestion();

    } else {

        displayResult();

    }

}

function displayResult() {

    questionElement.textContent = `Quiz Completed! Your Score: ${score} out of ${questions.length}`;

    document.getElementById("quizForm").style.display = "none";

}

loadQuestion();

document.getElementById("quizForm").addEventListener("submit", function (e) {

    e.preventDefault();

    checkAnswer();

});

FOR US!!!!!!!!!

Explanation:

1. **questions Array:** Contains objects representing quiz questions, each with a question, choices, correct answer, and a fun fact.
2. **currentQuestion and score Variables:** Keep track of the current question index and the user's score.
3. **DOM elements:** Variables to store references to HTML elements where the question, choices, and feedback will be displayed.
4. **loadQuestion Function:** Updates the HTML with the current question and choices.
5. **checkAnswer Function:** Checks the user's answer, updates the score and feedback, and moves to the next question or displays the final result.
6. **displayResult Function:** Displays the final quiz result.
7. **Initial loading:** Calls **loadQuestion** to display the first question.
8. **Event listener:** Listens for form submission and calls **checkAnswer** to handle the user's response.

Data:

* const questions: An array containing objects representing each quiz question. Each object includes:
  + question: The question text.
  + choices: An array of four possible answers.
  + correctAnswer: The letter (A, B, C, or D) of the correct answer.
  + funFact: A fun fact related to the question.

2. State Variables:

* let currentQuestion: Keeps track of the current question being displayed.
* let score: Tracks the number of correct answers the user has chosen.

3. DOM Elements:

* questionElement: The HTML element displaying the question text.
* choiceAElement, choiceBElement, choiceCElement, choiceDElement: HTML elements displaying the answer choices.
* feedbackElement: HTML element displaying feedback after an answer is chosen.

4. Functions:

* loadQuestion():
  + Sets the text of the questionElement, choice elements, and feedbackElement based on the current question object.
  + This function is called initially to display the first question and then again after each answer is submitted.
* checkAnswer():
  + Checks which radio button is selected and retrieves its value (A, B, C, or D).
  + Checks if a choice is selected and displays an error message if not.
  + Compares the chosen answer with the correct answer for the current question.
  + Updates the score and displays feedback based on whether the answer is correct or wrong.
  + Resets the radio buttons and increments the current question index.
  + If all questions have been answered, displays the final score and hides the quiz form.
* displayResult():
  + Shows the user's final score and hides the quiz form.

5. Event Listener:

* document.getElementById("quizForm").addEventListener("submit", function (e) { ... }):
  + Listens for the submit event on the quiz form.
  + Prevents the default form submission behavior.
  + Calls the checkAnswer() function to evaluate the user's chosen answer.

Overall, the code demonstrates how to:

* Store quiz questions and answers in an organized data structure.
* Display questions and answer choices dynamically based on the current question.
* Evaluate user input and provide feedback.
* Track user progress and display final results.