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DEPT   : CS

WEEKLY 1 MINI PROJECT – QUIZ WITH JAVASCRIPT

HTML CODE:

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>MCQ Quiz</title>
    <link
      href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap"
      rel="stylesheet"
    />
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <div class="start-screen">
      <button id="start-button">Start</button>
    </div>
    <div id="display-container">
      <div class="header">
        <div class="number-of-count">
          <span class="number-of-question">1 of 3 questions</span>
        </div>
        <div class="timer-div">
          <img src="timer-icon.svg" />
          <span class="time-left">10s</span>
        </div>
      </div>
      <div id="container">
      </div>
      <button id="next-button">Next</button>
    </div>
    <div class="score-container hide">
      <div id="user-score">Demo Score</div>
      <button id="restart">Restart</button>
    </div>
    <script src="script.js"></script>
  </body>
</html>
```

CSS CODE:

```css
* {
    padding: 0;
    margin: 0;
    box-sizing: border-box;
    font-family: "Poppins", sans-serif;
}
body {
    background-color: #0a69ed;
}
.start-screen,
.score-container {
    position: absolute;
    top: 0;
    width: 100%;
    height: 100%;
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
}
button {
    border: none;
    outline: none;
    cursor: pointer;
}
#start-button,
#restart {
    font-size: 1.3em;
    padding: 0.5em 1.8em;
    border-radius: 0.2em;
}
#restart {
    margin-top: 0.9em;
}
#display-container {
    background-color: #ffffff;
    padding: 3.1em 1.8em;
    width: 80%;
    max-width: 37.5em;
    margin: 0 auto;
    position: absolute;
    transform: translate(-50%, -50%);
    top: 50%;
    left: 50%;
    border-radius: 0.6em;
}
.header {
```

```css
    margin-bottom: 1.8em;
    display: flex;
    justify-content: space-between;
    align-items: center;
    padding-bottom: 0.6em;
    border-bottom: 0.1em solid #c0bfd2;
}
.timer-div {
    background-color: #e1f5fe;
    width: 7.5em;
    border-radius: 1.8em;
    display: flex;
    align-items: center;
    justify-content: space-between;
    padding: 0.7em 1.8em;
}
.question {
    margin-bottom: 1.25em;
    font-weight: 600;
}
.option-div {
    font-size: 0.9em;
    width: 100%;
    padding: 1em;
    margin: 0.3em 0;
    text-align: left;
    outline: none;
    background: transparent;
    border: 1px solid #c0bfd2;
    border-radius: 0.3em;
}
.option-div:disabled {
    color: #000000;
    cursor: not-allowed;
}
#next-button {
    font-size: 1em;
    margin-top: 1.5em;
    background-color: #0a69ed;
    color: #ffffff;
    padding: 0.7em 1.8em;
    border-radius: 0.3em;
    float: right;
}
.hide {
    display: none;
}
.incorrect {
```

```css
    background-color: #ffdde0;
    color: #d32f2f;
    border-color: #d32f2f;
  }
  .correct {
    background-color: #e7f6d5;
    color: #689f38;
    border-color: #689f38;
  }
  #user-score {
    font-size: 1.5em;
    color: #ffffff;
  }
```
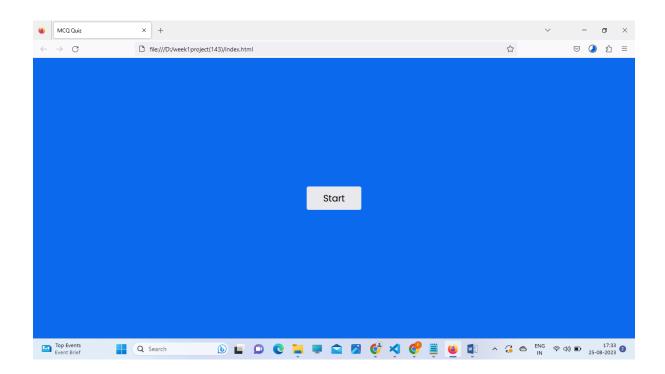
JAVASCRIPT CODE:

```javascript
let timeLeft = document.querySelector(".time-left");
let quizContainer = document.getElementById("container");
let nextBtn = document.getElementById("next-button");
let countOfQuestion = document.querySelector(".number-of-question");
let displayContainer = document.getElementById("display-container");
let scoreContainer = document.querySelector(".score-container");
let restart = document.getElementById("restart");
let userScore = document.getElementById("user-score");
let startScreen = document.querySelector(".start-screen");
let startButton = document.getElementById("start-button");
let questionCount;
let scoreCount = 0;
let count = 11;
let countdown;
const quizArray = [
  {
    id: "0",
    question: "Which is the most widely spoken language in the world?",
    options: ["Spanish", "Mandarin", "English", "German"],
    correct: "Mandarin",
  },
  {
    id: "1",
    question: "Which is the only continent in the world without a desert?",
    options: ["North America", "Asia", "Africa", "Europe"],
    correct: "Europe",
  },
  {
    id: "2",
    question: "Who invented Computer?",
    options: ["Charles Babbage", "Henry Luce", "Henry Babbage", "Charles
Luce"],
```
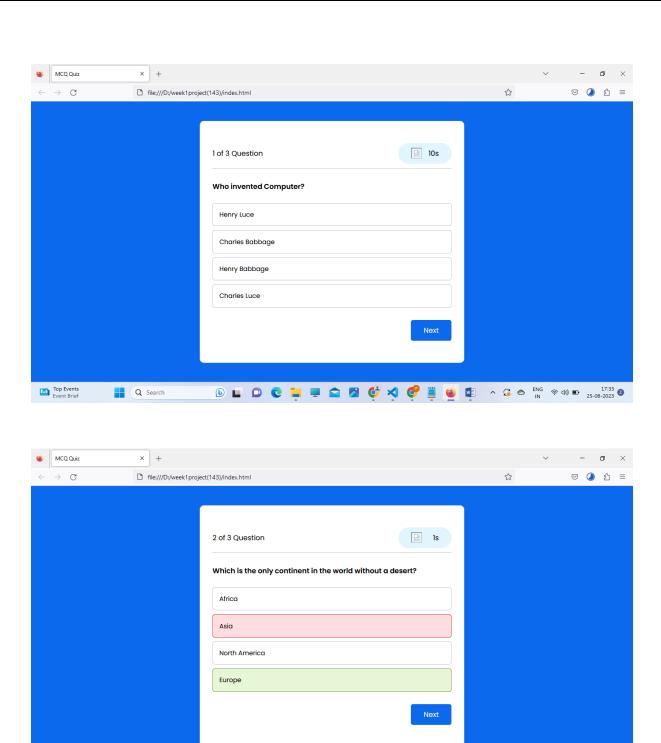
```javascript
      correct: "Charles Babbage",
    },
];
restart.addEventListener("click", () => {
  initial();
  displayContainer.classList.remove("hide");
  scoreContainer.classList.add("hide");
});
nextBtn.addEventListener(
  "click",
  (displayNext = () => {
    questionCount += 1;
    if (questionCount == quizArray.length) {
      displayContainer.classList.add("hide");
      scoreContainer.classList.remove("hide");
      userScore.innerHTML =
        "Your score is " + scoreCount + " out of " + questionCount;
    } else {
      countOfQuestion.innerHTML =
        questionCount + 1 + " of " + quizArray.length + " Question";
      quizDisplay(questionCount);
      count = 11;
      clearInterval(countdown);
      timerDisplay();
    }
  })
);
const timerDisplay = () => {
  countdown = setInterval(() => {
    count--;
    timeLeft.innerHTML = `${count}s`;
    if (count == 0) {
      clearInterval(countdown);
      displayNext();
    }
  }, 1000);
};
const quizDisplay = (questionCount) => {
  let quizCards = document.querySelectorAll(".container-mid");
  quizCards.forEach((card) => {
    card.classList.add("hide");
  });
  quizCards[questionCount].classList.remove("hide");
};
function quizCreator() {
  quizArray.sort(() => Math.random() - 0.5);
  for (let i of quizArray) {
    i.options.sort(() => Math.random() - 0.5);
```

```javascript
        let div = document.createElement("div");
        div.classList.add("container-mid", "hide");
        countOfQuestion.innerHTML = 1 + " of " + quizArray.length + " Question";
        let question_DIV = document.createElement("p");
        question_DIV.classList.add("question");
        question_DIV.innerHTML = i.question;
        div.appendChild(question_DIV);
        div.innerHTML += `
        <button class="option-div"
onclick="checker(this)">${i.options[0]}</button>
        <button class="option-div"
onclick="checker(this)">${i.options[1]}</button>
        <button class="option-div"
onclick="checker(this)">${i.options[2]}</button>
        <button class="option-div"
onclick="checker(this)">${i.options[3]}</button>
        `;
        quizContainer.appendChild(div);
    }
}
function checker(userOption) {
    let userSolution = userOption.innerText;
    let question =
        document.getElementsByClassName("container-mid")[questionCount];
    let options = question.querySelectorAll(".option-div");
    if (userSolution === quizArray[questionCount].correct) {
        userOption.classList.add("correct");
        scoreCount++;
    } else {
        userOption.classList.add("incorrect");
        options.forEach((element) => {
            if (element.innerText == quizArray[questionCount].correct) {
                element.classList.add("correct");
            }
        });
    }
    clearInterval(countdown);
    options.forEach((element) => {
        element.disabled = true;
    });
}
function initial() {
    quizContainer.innerHTML = "";
    questionCount = 0;
    scoreCount = 0;
    count = 11;
    clearInterval(countdown);
    timerDisplay();
```

```
  quizCreator();
  quizDisplay(questionCount);
}
startButton.addEventListener("click", () => {
  startScreen.classList.add("hide");
  displayContainer.classList.remove("hide");
  initial();
});
window.onload = () => {
  startScreen.classList.remove("hide");
  displayContainer.classList.add("hide");
};
```

OUTPUT:

Your score is 2 out of 3

Restart