Experiment No. 10
Minor Project

Student Name:	Anil	UID:	21BNM2101
Branch:	BSC CSM	Section/Group:	A
Semester:	5	Date of Performance:	6-11-23
Subject Name:	Web Design Lab	Subject Code:	21SCP-322

Statement	Online Quiz System: Design an online quiz system where user can take quizzes, see their score, and get instant feedback. Use PHP for quiz management and HTML/CSS/JavaScript for the frontend.
Aim	Designing a responsive webpage.
Objectives	Working with HTML, CSS, JavaScript ans PHP.
Language	HTML, CSS, JavaScript, PHP

Code:

HTML file:

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Quiz Website</title>
    <link rel="stylesheet", href="style.css">
  </head>
  <body>
    <div class="app">
      <h1>Simple Quiz</h1>
      <div class="quiz">
        <h2 id="question">Question goes here</h2>
        <div id="answer-buttons">
          <button class="btn">Answer1</button>
          <button class="btn">Answer2</button>
          <button class="btn">Answer3</button>
```

```html
            <button class="btn">Answer4</button>
        </div>
        <button id="next-btn">Next</button>
      </div>
    </div>
    <script src="script.js"></script>
  </body>
</html>
```

CSS File:
```css
* {
margin: 0;
padding: 0;
  font-family:Verdana, Geneva, Tahoma, sans-serif;    box-
sizing: border-box;
} body{
  background-color: #C7DCA7;
} .app{    background:
#89B9AD;    width: 90%;
max-width: 600px;
margin: 100px auto 0;
border-radius: 10px;
padding: 30px;
}
.app h1{    font-size: 25px;
color: #001e4d;    font-weight:
600;    border-bottom: 1px solid
#333;    padding-bottom: 30px;
} .quiz{
padding: 20px 0;
} .quiz h2{
font-size: 18px;
color: #001e4d;
font-weight: 600;
} .btn{
background: #fff;
color: #222;
font-weight: 500;
width: 100%;
```

```css
border: 1px solid #222;
padding: 10px;
margin: 10px 0;
text-align: left;
border-radius: 4px;
cursor: pointer;
transition: all 0.3s; }
.btn:hover:not([disabled]){
background: #222; color: #fff; }
.btn:disabled{
cursor: no-drop; }
#next-btn{
background: #001e4d; color: #fff; font-weight: 500;
width: 150px;
border: 0;
padding: 10px;
margin:20px auto 0; border-radius: 4px;
cursor: pointer;
display: none; }
.correct{
background: #9aeabc; }
.incorrect{ background: #ff9393;
}
```

JavaScript File: const questions = [

```
{
    question: "What does HTML stand for?",
    answers: [
        {text: "Hyper Tag Markup Language", correct: false},
        {text: "Hyper Text Markup Language", correct: true},
        {text: "Hyperlinks Text Mark Language", correct: false},
        {text: "Hyperlinking Text Marking Language", correct: false},
    ]
},
{
    question: "What symbol indicates a tag?",
    answers: [
        {text: "<>", correct: true},
        {text: "{}", correct: false},
        {text: """, correct: false},
        {text: "!", correct: false},
    ]
},
{
    question: "A CSS file can be applied to only one HTML file.",
answers: [
        {text: "True", correct: false},
        {text: "False", correct: true},
    ]
},
{
    question: "What is the correct tag for a line break?",
answers: [
        {text: "brk/", correct: false},
        {text: "line/", correct: false},
        {text: "bk/", correct: false},
        {text: "br/", correct: true},
    ] },
{
    question: "What does CSS stand for?",
answers: [
        {text: "Computing Style Sheet", correct: false},
        {text: "Creative Style System", correct: false},
        {text: "Cascading Style Sheet", correct: true},
```

```javascript
            {text: "Creative Styling Sheet", correct: false},
        ]
    },
    {
        question: "Where should a CSS file be referenced in a HTML file?",
answers: [
            {text: "Before an HTML code", correct: false},
            {text: "Inside the head section", correct: true},
{text: "After the HTML code", correct: false},
            {text: "Inside the body section", correct: false},
        ]
    },
    {
        question: "What is the correct format for aligning written content to the center of the page in
CSS?",
        answers: [
            {text: "Text-align:center;", correct: true},
            {text: "Font-align:center;", correct: false},
            {text: "Text:align-center;", correct: false},
            {text: "Font:align-center;", correct: false},
        ]
    },
    {
        question: "What is the correct format for changing the background colour of a div in CSS?",
        answers: [
            {text: "Bg-color:red;", correct: false},
            {text: "Background:red;", correct: false},
            {text: "Background-colour:red;", correct: false},
            {text: "Background-color:red;", correct: true},
        ]
    }
];
const questionElement = document.getElementById("question"); const
answerButtons = document.getElementById("answer-buttons"); const
nextButton = document.getElementById("next-btn");
let currentQuestionIndex = 0;
let score = 0; function
startQuiz(){
currentQuestionIndex = 0;
```

```javascript
    score = 0;
    nextButton.innerHTML = "Next";
    showQuestion();
}
function showQuestion(){
    resetState();
    let currentQuestion = questions[currentQuestionIndex];
let questionNo = currentQuestionIndex + 1;
    questionElement.innerHTML = questionNo + ". " + currentQuestion.question;
currentQuestion.answers.forEach(answer => {        const button =
document.createElement('button');        button.innerHTML = answer.text;
button.classList.add("btn");        answerButtons.appendChild(button);
if(answer.correct){
        button.dataset.correct = answer.correct;
    }
    button.addEventListener("click", selectAnswer);
    }); }
function resetState(){
nextButton.style.display = "none";
while(answerButtons.firstChild){
    answerButtons.removeChild(answerButtons.firstChild);
    }
}

function selectAnswer(e){
const selectBtn = e.target;
    const isCorrect = selectBtn.dataset.correct === "true";
if(isCorrect){
    selectBtn.classList.add("correct");
    score++;
}else{
    selectBtn.classList.add("incorrect");
    }
    Array.from(answerButtons.children).forEach(button => {
    if (button.dataset.correct === "true"){
        button.classList.add("correct");
    }
    button.disabled = true;
    });
```

```
    nextButton.style.display = "block";
}
function showScore(){
resetState();
    questionElement.innerHTML = `You scored ${score} out of ${questions.length}!`;
nextButton.innerHTML = "Play Again";     nextButton.style.display = 'block';
}
function handleNextButton(){
currentQuestionIndex++;
    if(currentQuestionIndex < questions.length){
showQuestion();
    }else{
showScore();
    }
}
nextButton.addEventListener("click", ()=>{
if(currentQuestionIndex < questions.length){
handleNextButton();
    }else{
startQuiz();
    }
});

startQuiz();
```

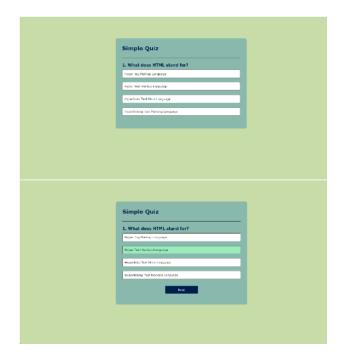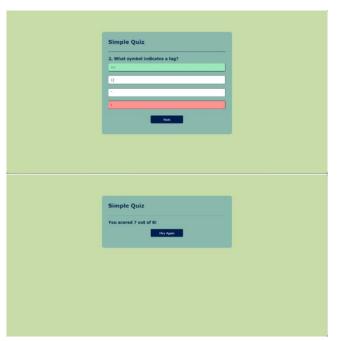**Output:**

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

S.N.	Parameters	Marks Obtained	Maximum Marks
1.	Conduct of Experiment		12
2.	Viva-voce		10
3.	Submission of Work Sheet		08