TASK - 1

Interactive Quiz Application :-

Aim :- To build a quiz application using javaScript where users can answer questions, get instant feedback and view their final score dynamically.

Technology Used :-

- HTML 5 - page structure
- CSS 3 - Styling & Layout
- JavaScript (ES6) - Quiz logic, dynamic question loading, scoring, feedback.

Features :-

- Dynamic questions loaded from a javascript array.
- Multiple choice UI.
- Instant feedback after each answer (correct/wrong + brief Explanation)
- progress bar & question Counter.
- Final score Summary and restart button.
- Responsive Layout.

Program :-

→ Index.html :-

HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport"
content="width=device-width, initial-scale=1.0">
<title>Interactive Quiz Application</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<div class="quiz-container">
<h1>Interactive Quiz</h1>
<div id="question">Question text</div>
<div id="options"></div>
<button id="next-btn"
Onclick="nextQuestion()">Next</button>
<div id="feedback"></div>
<div id="score"></div>
</div>
<script src="script.js"></script>
</body>
</html>
```

→ Style.css :

```
body{
    font-family: Arial, scans-serif;
    background: #f8f9fa;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
}
.quiz-container{
    background: #fff;
    padding: 25px;
    width: 400px;
    box-shadow: 0 0 10px rgba(0,0,0,0.2);
    border-radius: 10px;
}
h1{
    text-align: center
    color: #007bff;
}
#question{
    Margin: 20px 0;
    front-weight: bold;
}
.option:hover{
    background: #dceefc;
}
.correct{
background-color #c3f7c0;
```

```
}
.wrong {
  background-color: #f7c0c0;
}
#feedback {
  Margin-top: 10px;
  font-weight: bold;
}
# score {
  Margin-top: 15 px;
  text-align: center;
  color: green;
}
button {
  Width: 100%;
  Padding: 10px;
  background: #007bff;
  color: white;
  bolder: none;
  bolder-radius: 5 px;
  Margin-top: 10 px;
  Cursor: pointer;
}
```

→ Script.js :-

```
const questions = [
{
question: "1. What does HTML stands for ?",
Options: [
  "Hyper Text Markup Language",
  "High Text Machine Language",
  "Hyper Transfer Markup Language",
  "Home Tool Markup Language",
],
  answer: 0
},
{
question: "2. Which language is used for Web page
Styling ?",
Options: ["python", "css", "c++", "java"],
  answer: 1,
},
{
question: "3, Which symbol is used for comments in
  Javascript ?",
Options: ["//", "<!---->", "#", "**"],
  answer: 0
},
{
```

```
question: "4. Which HTML tag is used to include
  javascript ?",
Option: ["<js>", "<javascripts", "<scripts", "<codes"],
  answer: 2.
},
{
 question: "5. javascript is a ____ language,",
options: ["Markup", "programming", "Database",
     Styling"],
  answer: 1
 }
};
 Let current = 0;
 let score = 0;
 Const questionE1 = document.getElementById("question")
Const questionE1 = document.getElementById("options")
Const feedbackE1 = document.getElementById("feedback")
Const NextBtn = document.getElementById("next-btn")
Const scoreE1 = document.getElementById("score");
 function loadQuestion () {
 feedback.textContent = "";
  let q = questions[current];
question E1.textContent = q.question;
options E1.innerHTML = "";
```

```
q.options.forEach((opt, i) => {
const div = document.getElementById("seqer");
function loadQuestion(){
  feedbackEl.textContent = "";
  let q = questions[current];
  questionEl.textContent = q.question;
  optionsEl.innerHTML = "";
  q.options.forEach((opt, i) => {
    const div = document.createElement("div");
    div.classList.add("option");
    div.textContent = opt;
    div.onclick = () => selectAnswer(i);
    optionsEl.appendChild(div);
  });
}
loadQuestion();
function selectAnswer(selected){
  const correct = questions[current].answer;
const options = document.querySelectorAll(".option");
options.forEach((option, index) => {
  option.onclick = null;
    if (index === correct)
option.classList.add("correct");
  else if (index ===
```

```
option.classList.add("wrong");
});
if (selected === correct) {
  score++;
feedback.textContent = "✓ Correct!";
} else {
feedback.textContent = "✗ Wrong!";
}
}

function nextQuestion() {
  current++;
  if (current < questions.length) {
    loadQuestion();
  } else {
    showScore();
  }
}

function showScore() {
  questionEl.textContent = "Quiz completed!";
  optionsEl.innerHTML = "";
  nextBtn.style.display = "none";
  feedbackEl.textContent = "";
  scoreEl.textContent = `Your final score is ${score} out of ${questions.length}`;
}
```

Output :-

Interactive Quiz

1. What does HTML stand for?

- Hyper Text Markup Language
- High Text Machine Language
- Hyper Transfer Markup Language
- Home Tool Markup Language

Next

Interactive Quiz

2. Which language is used for web page styling?

Python

CSS

C++

Java

Next

Interactive Quiz

3. Which symbol is used for comments in JavaScript?

- //
- <!-- -->
- #
- **

Next

Interactive Quiz

4. Which HTML tag is used to include JavaScript?

<js>

<javascript>

<script>

<code>

Next

Interactive Quiz

5. JavaScript is a _____ language.

- Markup
- Programming
- Database
- Styling

Next

Interactive Quiz

Quiz Completed!

Your final score is 0 out of 5