	ITER, SIKSHA 'O' ANUSANDHAN (Deemed to be University)		Minor Project
Branch	CSIT	Programme	**B.Tech**
Course Name	PROGRAMMING PROJECTS WITH JAVASCRIPT(PPWJ)	Semester	5th
Course Code	CSE 3838	Academic Year	2025-2026

Minor Project					
Learning Level (LL)	**L1**: Remembering		**L3:** Applying		**L5**: Evaluating
	L2: Understanding		**L4**: Analysing		**L6**: Creating

Q's	Questions	COs	LL

1	**Develop a Simple Quiz Application using HTML, CSS, and JavaScript.**
	Step 1: Create the HTML Structure
	• Create an HTML file named index.html.
	• Add a heading with the title **"Online Quiz Application"**.
	• Display:
	 o A question area
	 o Four multiple-choice options (radio buttons or buttons)
	 o A **Next** button
	 o A **Score display**
	• Add a **Start Quiz** button.
	
	Step 2: Apply CSS Styling
	• Use an external CSS file.
	• Center the quiz container on the page.
	• Style:
	 o Question box
	 o Option buttons
	• Add hover effects using the :hover pseudo-class.
	• Highlight the selected option using a separate CSS class.
	
	Step 3: Access DOM Elements Using JavaScript
	Use JavaScript to access:
	• Question display
	• Options
	• Score display
	• Buttons
	Initialize variables for:
	• Current question index
	• Score
	
	Step 4: Store Questions Using JavaScript Objects
	• Create an array of objects to store:
	 o Question
	 o Options
	 o Correct answer
	• Example:
	{
	  question: "Which language is used for web development?",
	  options: ["Java", "Python", "JavaScript", "C++"],
	  answer: "JavaScript"
		CO1,CO2, CO3,CO4, CO5,CO6	L3,L4

}

Step 5: Display Questions Dynamically
- Write a function to load questions dynamically.
- Update the question and options using innerHTML.
- Move to the next question on button click.

Step 6: Handle User Interaction
- Add event listeners to option buttons.
- When an option is selected:
    - Check the answer
    - Increase score if correct
    - Disable further selection
- Use visual feedback for correct and incorrect answers.

Step 7: Display Final Result
- Show final score after all questions are answered.
- Display a message like:
    - "Quiz Completed!"
    - "Your Score: X / Y"
- Disable quiz interaction after completion.

Expected Output
- Interactive quiz interface
- Questions displayed one by one
- Score updated dynamically
- Final score shown at the end

Note:

1. Minor Project carries a weightage of 20 **marks out of 100**
2. All course outcomes were covered.

	CO1	Understand Javascript syntax, programming environment, and design functional programs using variables, data types, and operators.
	CO2	Apply Javascript arrays, logic statements, and loops to develop programs that solve real-world problems.
Course Outcomes	CO3	Implement Javascript functions and apply OOP concepts such as classes and inheritance to create modular, reusable code.
	CO4	Utilize built-in Javascript methods for arrays, strings, numbers, math, and dates to manipulate and process data effectively.
	CO5	Develop interactive web elements using the DOM and dynamic element manipulation using DOM.
	CO6	Design dynamic and interactive event-driven web applications.