**Report on the Developed Project**

**Project 1: Quiz Application**

**Objective**: To develop a timed, interactive quiz application that allows users to test their knowledge on various topics.

**Implementation:**

**1. HTML Structure:** Created a structured HTML layout that includes question prompts,   
 multiple-choice answers, and a timer display. Used semantic   
 elements like <header>, <section>, and <footer> to organize the   
 layout clearly**.**

**2. JavaScript Logic:** Developed JavaScript functionality to manage questions, record   
 responses, and track the remaining time. Implemented logic to   
 calculate the final score and provide feedback based on the user's   
 performance.

**3. CSS Styling:** Styled the quiz application to ensure a visually appealing design   
 with dynamic background animations. The CSS also adapts the   
 layout responsively to enhance user experience across various   
 devices.

**Outcome:** The quiz application is fully functional, allowing users to answer questions within a set time limit. It provides instant feedback on correct and incorrect answers and displays a summary score at the end. The application is engaging, easy to navigate, and serves as an effective demonstration of HTML, CSS, and JavaScript skills.

**Project 2: Simple Calculator**

**Objective:** To create a straightforward calculator capable of performing basic arithmetic operations.

**Implementation:**

1. **HTML Structure:**Built a basic HTML layout, including an input field to display calculations and buttons for each number and operator.
2. **JavaScript Logic:**Wrote JavaScript functions to handle button interactions, allowing users to input numbers and operators to form expressions.
3. **CSS Styling:**Used CSS to style the calculator interface, focusing on a clean layout with clear button differentiation through colors and spacing, making it easy to use.

**Outcome:** The calculator operates smoothly, supporting basic arithmetic functions like addition, subtraction, multiplication, and division. The design is intuitive and user-friendly, showcasing foundational knowledge in HTML, CSS, and JavaScript, with practical applications in web development.

**Overall, both projects reflect core competencies in front-end development, particularly with HTML, CSS, and JavaScript. The quiz application provides a dynamic way to demonstrate knowledge and engagement, while the calculator offers a practical, functional tool that reinforces key programming concepts**