Week 06\advanced_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>Week 6: DOM & DOM tree manipulation</title>
        <link rel="icon" href="https://icon-library.com/images/icon-ninja/icon-ninja-15.jpg">
        <style>
            body {
                font-family: Arial, sans-serif;
            }
            table {
                border-collapse: collapse;
                width: 100%;
            }
            th, td {
                border: 1px solid #dddddd;
                text-align: left;
                padding: 8px;
            }
            th {
                background-color: #f2f2f2;
            }
            #taskInput {
                margin-bottom: 10px;
            }
            .completed {
                text-decoration: line-through;
                color: grey;
            }
            .actionButtons button {
                margin-right: 5px;
            }
        </style>
    </head>
    <body>
        <h1>To-Do List</h1>
        <input type="text" id="taskInput" placeholder="Enter task">
        <button onclick="addTask()">Add Task</button>
        <table id="taskList">
            <thead>
                <tr><th>S.no</th><th>Mark as Completed</th><th>Task</th><th>Actions</th></tr>
            </thead>
            <tbody></tbody>
        </table>
        <script>
            let tasks = [];
            function renderTasks() {
                const taskTableBody = document.querySelector('#taskList tbody');
                taskTableBody.innerHTML = '';

                tasks.forEach((task, index) => {
                    const row = taskTableBody.insertRow();
                    const snoCell = row.insertCell();
                    snoCell.textContent = index + 1;
                    const checkboxCell = row.insertCell();
                    const checkbox = document.createElement('input');
                    checkbox.type = 'checkbox';
                    checkbox.checked = task.completed;
                    checkbox.addEventListener('change', () => {
                        toggleTaskCompletion(index);
                    });
                    checkboxCell.appendChild(checkbox);
                    const taskCell = row.insertCell();
                    const taskText = document.createElement('span');
                    taskText.textContent = task.text;
                    if (task.completed) {
                        taskText.classList.add('completed');
                    }
                    taskCell.appendChild(taskText);
                    const actionsCell = row.insertCell();
                    const editButton = document.createElement('button');
                    editButton.textContent = 'Edit';
                    editButton.addEventListener('click', () => {
                        editTask(index);
                    });
                    actionsCell.appendChild(editButton);
                    const deleteButton = document.createElement('button');
                    deleteButton.textContent = 'Delete';
                    deleteButton.addEventListener('click', () => {
                        deleteTask(index);
                    });
                    actionsCell.appendChild(deleteButton);
                    actionsCell.classList.add('actionButtons');
                });
            }

            function addTask() {
                const taskInput = document.getElementById('taskInput');
                const taskText = taskInput.value.trim();
                if (taskText !== '') {
                    tasks.push({ text: taskText, completed: false });
                    taskInput.value = '';
                    renderTasks();
                }
            }

            function deleteTask(index) {
                tasks.splice(index, 1);
                renderTasks();}

            function toggleTaskCompletion(index) {
                tasks[index].completed = !tasks[index].completed;
                renderTasks();}

            function editTask(index) {
                const newTaskText = prompt('Edit task:', tasks[index].text);
                if (newTaskText !== null) {
                    tasks[index].text = newTaskText.trim();
                    renderTasks();}}

            renderTasks();
        </script>
    </body>
</html>
```