***LAB ASSIGNMENT – 14***

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***Prompt 01:***

***Create a simple webpage with a header, main content, and footer.***

***Make it responsive using HTML and CSS so it looks good on mobile and desktop.***

***code:***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*<title>Simple Responsive Page</title>*

*<!-- Load Tailwind CSS -->*

*<script src="https://cdn.tailwindcss.com"></script>*

*<!-- Configure Tailwind to use Inter font -->*

*<script>*

*tailwind.config = {*

*theme: {*

*extend: {*

*fontFamily: {*

*sans: ['Inter', 'sans-serif'],*

*},*

*},*

*},*

*}*

*</script>*

*<style>*

*/\* A simple style block for demonstration, though Tailwind handles most of this \*/*

*body {*

*font-family: 'Inter', sans-serif;*

*}*

*</style>*

*</head>*

*<body class="flex flex-col min-h-screen bg-gray-50 text-gray-800">*

*<!-- Header Section -->*

*<header class="bg-gray-800 text-white p-6 shadow-md">*

*<div class="container mx-auto max-w-6xl">*

*<h1 class="text-3xl font-bold text-center md:text-left">My Website</h1>*

*</div>*

*</header>*

*<!-- Main Content Section -->*

*<!-- 'flex-grow' makes this section expand to fill available space -->*

*<main class="flex-grow container mx-auto max-w-6xl p-6">*

*<h2 class="text-2xl font-semibold mb-4">Main Content Area</h2>*

*<p class="mb-4">*

*This is a simple responsive webpage. The header is at the top, the footer is at the bottom,*

*and this is the main content area.*

*</p>*

*<!-- Removed the responsive grid to make it simpler -->*

*<div class="bg-white p-6 rounded-lg shadow-md">*

*<h3 class="text-xl font-semibold mb-2">Simple Section</h3>*

*<p>*

*This is a single content box.*

*</p>*

*</div>*

*</main>*

*<!-- Footer Section -->*

*<footer class="bg-gray-200 text-gray-600 p-6 text-center">*

*<div class="container mx-auto max-w-6xl">*

*<p>&copy; 2025 My Website. All rights reserved.</p>*

*</div>*

*</footer>*

*</body>*

*</html>*

***Preview:***

***A screenshot of a computer

AI-generated content may be incorrect.***

***Prompt 02:***

***Make a button using HTML and JavaScript.  
When clicked, show a message like “Button clicked!” using an alert***

***Code:***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*<title>Simple Page</title>*

*<!-- Load Tailwind CSS -->*

*<script src="https://cdn.tailwindcss.com"></script>*

*<style>*

*/\* Basic font styling \*/*

*body { font-family: sans-serif; }*

*</style>*

*</head>*

*<body class="bg-gray-50 text-gray-800">*

*<!-- Header Section -->*

*<header class="bg-gray-800 text-white p-4 text-center">*

*<h1 class="text-2xl font-bold">My Website</h1>*

*</header>*

*<!-- Main Content Section -->*

*<main class="p-4">*

*<h2 class="text-xl font-semibold mb-2">Main Content</h2>*

*<!-- Simple section with a button -->*

*<div class="bg-white p-4 rounded shadow">*

*<p class="mb-4">Click the button below!</p>*

*<!-- Button -->*

*<button id="mainButton" class="px-4 py-2 bg-blue-600 text-white rounded hover:bg-blue-700">*

*Click Me*

*</button>*

*<!-- Message will appear here -->*

*<p id="messageArea" class="mt-4 font-semibold text-blue-700"></p>*

*</div>*

*</main>*

*<!-- Footer Section -->*

*<footer class="bg-gray-200 text-gray-600 p-4 text-center mt-6">*

*<p>&copy; 2025</p>*

*</footer>*

*<!-- JavaScript for the button -->*

*<script>*

*// Get references to the elements*

*const mainButton = document.getElementById('mainButton');*

*const messageArea = document.getElementById('messageArea');*

*// Show a message when the main button is clicked*

*mainButton.addEventListener('click', () => {*

*messageArea.textContent = 'Button clicked!';*

*});*

*</script>*

*</body>*

*</html>*

***Preview:A screenshot of a computer

AI-generated content may be incorrect.***

***Prompt 03:***

***Create a contact form with Name, Email, and Message fields.  
Use JavaScript to check if all fields are filled and email is valid.  
Show a success message when the form is correct****.*

***Code:***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*<title>Simple Page</title>*

*<!-- Load Tailwind CSS -->*

*<script src="https://cdn.tailwindcss.com"></script>*

*<style>*

*/\* Basic font styling \*/*

*body { font-family: sans-serif; }*

*/\* Simple style for invalid fields \*/*

*.invalid-field {*

*border-color: #ef4444; /\* red-500 \*/*

*}*

*</style>*

*</head>*

*<body class="bg-gray-50 text-gray-800">*

*<!-- Header Section -->*

*<header class="bg-gray-800 text-white p-4 text-center">*

*<h1 class="text-2xl font-bold">My Website</h1>*

*</header>*

*<!-- Main Content Section -->*

*<main class="p-4">*

*<!-- Simple section with a button -->*

*<div class="bg-white p-4 rounded shadow mb-6">*

*<h2 class="text-xl font-semibold mb-2">Simple Example</h2>*

*<p class="mb-4">Click the button below!</p>*

*<!-- Button -->*

*<button id="mainButton" class="px-4 py-2 bg-blue-600 text-white rounded hover:bg-blue-700">*

*Click Me*

*</button>*

*<!-- Message will appear here -->*

*<p id="messageArea" class="mt-4 font-semibold text-blue-700"></p>*

*</div>*

*<!-- New Contact Form Section -->*

*<div class="bg-white p-4 rounded shadow">*

*<h2 class="text-xl font-semibold mb-4">Contact Us</h2>*

*<!-- Contact Form -->*

*<!-- 'novalidate' stops the browser's default validation -->*

*<form id="contactForm" novalidate>*

*<div class="mb-4">*

*<label for="name" class="block mb-1">Name</label>*

*<input type="text" id="name" class="w-full px-3 py-2 border border-gray-300 rounded">*

*</div>*

*<div class="mb-4">*

*<label for="email" class="block mb-1">Email</label>*

*<input type="email" id="email" class="w-full px-3 py-2 border border-gray-300 rounded">*

*</div>*

*<div class="mb-4">*

*<label for="message" class="block mb-1">Message</label>*

*<textarea id="message" rows="3" class="w-full px-3 py-2 border border-gray-300 rounded"></textarea>*

*</div>*

*<button type="submit" class="w-full px-4 py-2 bg-green-600 text-white rounded hover:bg-green-700">*

*Submit*

*</button>*

*</form>*

*<!-- Form message area (for success or error) -->*

*<p id="formMessage" class="mt-4 font-semibold"></p>*

*</div>*

*</main>*

*<!-- Footer Section -->*

*<footer class="bg-gray-200 text-gray-600 p-4 text-center mt-6">*

*<p>&copy; 2025</p>*

*</footer>*

*<!-- JavaScript for the page -->*

*<script>*

*// === Button Click ===*

*const mainButton = document.getElementById('mainButton');*

*const messageArea = document.getElementById('messageArea');*

*mainButton.addEventListener('click', () => {*

*messageArea.textContent = 'Button clicked!';*

*});*

*// === Contact Form Validation ===*

*const contactForm = document.getElementById('contactForm');*

*const formMessage = document.getElementById('formMessage');*

*// Simple email check function*

*function isValidEmail(email) {*

*// A basic check for email format*

*return /^[^\s@]+@[^\s@]+\.[^\s@]+$/.test(email);*

*}*

*contactForm.addEventListener('submit', (event) => {*

*// Stop the form from submitting*

*event.preventDefault();*

*// Get the form fields*

*const name = document.getElementById('name');*

*const email = document.getElementById('email');*

*const message = document.getElementById('message');*

*// Reset styles and message*

*formMessage.textContent = '';*

*name.classList.remove('invalid-field');*

*email.classList.remove('invalid-field');*

*message.classList.remove('invalid-field');*

*let isValid = true;*

*// Check if fields are empty*

*if (name.value.trim() === '') {*

*name.classList.add('invalid-field');*

*isValid = false;*

*}*

*if (message.value.trim() === '') {*

*message.classList.add('invalid-field');*

*isValid = false;*

*}*

*// Check email*

*if (email.value.trim() === '' || !isValidEmail(email.value.trim())) {*

*email.classList.add('invalid-field');*

*isValid = false;*

*}*

*// Show success or error message*

*if (isValid) {*

*formMessage.textContent = 'Success! Your message was sent.';*

*formMessage.className = 'mt-4 font-semibold text-green-600';*

*contactForm.reset(); // Clear the form*

*} else {*

*formMessage.textContent = 'Please fill out all fields correctly.';*

*formMessage.className = 'mt-4 font-semibold text-red-600';*

*}*

*});*

*</script>*

*</body>*

*</html>*

***preview:***

***A screenshot of a computer

AI-generated content may be incorrect.***

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***Prompt 04:***

***Make a list of items on a webpage.  
Add two buttons one to add a new item and another to remove the last item using JavaScript.***

***Code:***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*<title>Simple Page</title>*

*<!-- Load Tailwind CSS -->*

*<script src="https://cdn.tailwindcss.com"></script>*

*<style>*

*/\* Basic font styling \*/*

*body { font-family: sans-serif; }*

*</style>*

*</head>*

*<body class="bg-gray-50 text-gray-800">*

*<!-- Header Section -->*

*<header class="bg-gray-800 text-white p-4 text-center">*

*<h1 class="text-2xl font-bold">My Website</h1>*

*</header>*

*<!-- Main Content Section -->*

*<main class="p-4">*

*<!-- New List Section -->*

*<div class="bg-white p-4 rounded shadow">*

*<h2 class="text-xl font-semibold mb-4">My List</h2>*

*<!-- Buttons for list manipulation -->*

*<div class="flex space-x-4 mb-4">*

*<button id="addItemButton" class="px-4 py-2 bg-blue-600 text-white rounded hover:bg-blue-700">*

*Add Item*

*</button>*

*<button id="removeItemButton" class="px-4 py-2 bg-red-600 text-white rounded hover:bg-red-700">*

*Remove Last Item*

*</button>*

*</div>*

*<!-- The list itself -->*

*<ul id="itemList" class="list-disc list-inside bg-gray-50 p-4 rounded border">*

*<li>First item</li>*

*<li>Second item</li>*

*</ul>*

*</div>*

*</main>*

*<!-- Footer Section -->*

*<footer class="bg-gray-200 text-gray-600 p-4 text-center mt-6">*

*<p>&copy; 2025</p>*

*</footer>*

*<!-- JavaScript for the page -->*

*<script>*

*// === List Manipulation ===*

*const addItemButton = document.getElementById('addItemButton');*

*const removeItemButton = document.getElementById('removeItemButton');*

*const itemList = document.getElementById('itemList');*

*// Keep track of how many items we have*

*let itemCount = 2; // We start with 2 items*

*// Add item*

*addItemButton.addEventListener('click', () => {*

*itemCount++; // Increment the counter*

*// Create a new list item element*

*const li = document.createElement('li');*

*// Set its text*

*li.textContent = 'New Item ' + itemCount;*

*// Add it to the list*

*itemList.appendChild(li);*

*});*

*// Remove last item*

*removeItemButton.addEventListener('click', () => {*

*// Find the last item in the list*

*const lastItem = itemList.lastElementChild;*

*if (lastItem) { // Check if a last item exists*

*// Remove it from the list*

*itemList.removeChild(lastItem);*

*itemCount--; // Decrement the counter*

*}*

*});*

*</script>*

*</body>*

*</html>* ***preview:***

*A screenshot of a computer

AI-generated content may be incorrect.*

***Prompt 05:***

***Create a button that opens a popup box (modal).  
Add text inside the modal and a close (X) button to hide it.  
Style it with CSS to look nice.***

***Code:***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*<title>Simple Page</title>*

*<!-- Load Tailwind CSS -->*

*<script src="https://cdn.tailwindcss.com"></script>*

*<style>*

*/\* Basic font styling \*/*

*body { font-family: sans-serif; }*

*</style>*

*</head>*

*<body class="bg-gray-50 text-gray-800">*

*<!-- Header Section -->*

*<header class="bg-gray-800 text-white p-4 text-center">*

*<h1 class="text-2xl font-bold">My Website</h1>*

*</header>*

*<!-- Main Content Section -->*

*<main class="p-4">*

*<!-- New Modal Button Section -->*

*<div class="bg-white p-4 rounded shadow mb-6">*

*<h2 class="text-xl font-semibold mb-4">Modal Example</h2>*

*<button id="openModalButton" class="px-4 py-2 bg-purple-600 text-white rounded hover:bg-purple-700">*

*Open Modal*

*</button>*

*</div>*

*<!-- List Section -->*

*<div class="bg-white p-4 rounded shadow">*

*<h2 class="text-xl font-semibold mb-4">My List</h2>*

*<!-- Buttons for list manipulation -->*

*<div class="flex space-x-4 mb-4">*

*<button id="addItemButton" class="px-4 py-2 bg-blue-600 text-white rounded hover:bg-blue-700">*

*Add Item*

*</button>*

*<button id="removeItemButton" class="px-4 py-2 bg-red-600 text-white rounded hover:bg-red-700">*

*Remove Last Item*

*</button>*

*</div>*

*<!-- The list itself -->*

*<ul id="itemList" class="list-disc list-inside bg-gray-50 p-4 rounded border">*

*<li>First item</li>*

*<li>Second item</li>*

*</ul>*

*</div>*

*</main>*

*<!-- Footer Section -->*

*<footer class="bg-gray-200 text-gray-600 p-4 text-center mt-6">*

*<p>&copy; 2025</p>*

*</footer>*

*<!-- The Modal -->*

*<!-- It's hidden by default with the "hidden" class -->*

*<div id="myModal" class="hidden fixed inset-0 bg-black/50 flex items-center justify-center p-4">*

*<!-- Modal content -->*

*<div class="bg-white rounded-lg shadow-xl p-6 w-full max-w-md relative">*

*<!-- Modal header with close button -->*

*<div class="flex justify-between items-center mb-4">*

*<h3 class="text-xl font-semibold">Modal Title</h3>*

*<!-- Close button (X) -->*

*<button id="closeModalButton" class="text-gray-500 hover:text-gray-800 text-3xl font-bold">&times;</button>*

*</div>*

*<!-- Modal body -->*

*<p>This is the content inside the modal popup box. You can put any text or HTML here.</p>*

*</div>*

*</div>*

*<!-- JavaScript for the page -->*

*<script>*

*// === List Manipulation ===*

*const addItemButton = document.getElementById('addItemButton');*

*const removeItemButton = document.getElementById('removeItemButton');*

*const itemList = document.getElementById('itemList');*

*let itemCount = 2;*

*addItemButton.addEventListener('click', () => {*

*itemCount++;*

*const li = document.createElement('li');*

*li.textContent = 'New Item ' + itemCount;*

*itemList.appendChild(li);*

*});*

*removeItemButton.addEventListener('click', () => {*

*const lastItem = itemList.lastElementChild;*

*if (lastItem) {*

*itemList.removeChild(lastItem);*

*itemCount--;*

*}*

*});*

*// === Modal ===*

*const openModalButton = document.getElementById('openModalButton');*

*const closeModalButton = document.getElementById('closeModalButton');*

*const myModal = document.getElementById('myModal');*

*// Show the modal*

*openModalButton.addEventListener('click', () => {*

*myModal.classList.remove('hidden');*

*});*

*// Hide the modal*

*closeModalButton.addEventListener('click', () => {*

*myModal.classList.add('hidden');*

*});*

*// Also hide modal if user clicks on the background*

*myModal.addEventListener('click', (event) => {*

*// Check if the click is on the background (myModal) and not on the content box*

*if (event.target === myModal) {*

*myModal.classList.add('hidden');*

*}*

*});*

*</script>*

*</body>*

*</html>* ***preview:***

***A screenshot of a computer

AI-generated content may be incorrect.***