

JS1 TUTE

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1.	<pre><!DOCTYPE html> <html> <head> <title>Popup Message Example</title> </head> <body> <h1>Click the Button to Display a Popup Message</h1> <button id="popupButton">Click Me</button> <script> // JavaScript code to handle button click event document.getElementById('popupButton').addEventListener('click', function() { alert('This is an alert'); }); </script> </body> </html></pre>
2.	<pre><!DOCTYPE html> <html> <head> <title>Mark Calculator</title> </head> <body> <h1>Mark Calculator</h1> <label for="mark1">Mark 1:</label> <input type="number" id="mark1" required>

 <label for="mark2">Mark 2:</label> <input type="number" id="mark2" required>

 <label for="mark3">Mark 3:</label> <input type="number" id="mark3" required>

 <label for="mark4">Mark 4:</label> <input type="number" id="mark4" required>

 <label for="mark5">Mark 5:</label> <input type="number" id="mark5" required>

 <button onclick="calculateMarks()">Calculate</button> <button onclick="checkGrade()">Grade</button></pre>

	<pre> <script> let marks = []; function calculateMarks() { let mark1 = parseInt(document.getElementById('mark1').value); let mark2 = parseInt(document.getElementById('mark2').value); let mark3 = parseInt(document.getElementById('mark3').value); let mark4 = parseInt(document.getElementById('mark4').value); let mark5 = parseInt(document.getElementById('mark5').value); marks = [mark1, mark2, mark3, mark4, mark5]; let total = marks.reduce((acc, curr) => acc + curr, 0); let average = total / marks.length; alert(`Total marks: \${total}\nAverage marks: \${average}`); } function checkGrade() { let total = marks.reduce((acc, curr) => acc + curr, 0); let average = total / marks.length; if (average > 30) { alert("Congrats! You passed."); } else { alert("Better luck next time."); } } </script> </body> </html> </pre>
3.	<pre> <!DOCTYPE html> <html> <head> <title>Change Background Color</title> </head> <body> <h1>Change Background Color</h1> <button onmouseover="changeBackgroundColor('red')" onmouseout="restoreBackgroundColor()">Red</button> <button onmouseover="changeBackgroundColor('green')" onmouseout="restoreBackgroundColor()">Green</button> <button onmouseover="changeBackgroundColor('blue')" onmouseout="restoreBackgroundColor()">Blue</button> <script> let originalBackgroundColor = document.body.style.backgroundColor; </pre>

	<pre> function changeBackgroundColor(color) { document.body.style.backgroundColor = color; } function restoreBackgroundColor() { document.body.style.backgroundColor = originalBackgroundColor; } </script> </body> </html> </pre> <p>Copy and paste this code into a text editor and save it with the extension ".html" (e.g., background_color_change.html). Then, you can open the HTML file in your web browser. When you move the mouse pointer over each button, the background color of the page will change to th</p>
4.	<pre> <!DOCTYPE html> <html> <head> <title>Calculate Circle Area</title> </head> <body> <h1>Calculate Circle Area</h1> <button onclick="calculateArea()">Calculate Area</button> <script> function calculateArea() { // Prompt the user to enter the radius let radius = prompt("Enter the radius of the circle:"); // Convert the input to a number (since prompt returns a string) radius = parseFloat(radius); if (isNaN(radius) radius <= 0) { alert("Invalid input. Please enter a valid positive number for the radius."); } else { // Calculate the area of the circle (A = π * r^2) let area = Math.PI * Math.pow(radius, 2); alert(`The area of the circle with radius \${radius} is \${area.toFixed(2)}`); } } </script> </body> </html> </pre>
5.	<pre> <!DOCTYPE html> <html> <head> <title>Day of the Week</title> </pre>

	<pre> </head> <body> <h1>Day of the Week</h1> <button onclick="getDayOfWeek()">Get Day of the Week</button> <script> function getDayOfWeek() { let userInput = prompt("Enter a number from 1 to 7:"); let dayOfWeek; // Convert the input to an integer (since prompt returns a string) let dayNumber = parseInt(userInput); switch (dayNumber) { case 1: dayOfWeek = "Sunday"; break; case 2: dayOfWeek = "Monday"; break; case 3: dayOfWeek = "Tuesday"; break; case 4: dayOfWeek = "Wednesday"; break; case 5: dayOfWeek = "Thursday"; break; case 6: dayOfWeek = "Friday"; break; case 7: dayOfWeek = "Saturday"; break; default: dayOfWeek = "Invalid input. Please enter a number from 1 to 7."; } alert(dayOfWeek); } </script> </body> </html> </pre>
6.	<pre> <!DOCTYPE html> <html> <head> <title>Redirect to Google</title> </pre>

	<pre> </head> <body> <h1>Redirect to Google</h1> <button onclick="redirectToGoogle()">Google</button> <script> function redirectToGoogle() { // Display the confirm box let result = confirm("Do you want to go to Google?"); // If 'OK' is selected, redirect to Google if (result) { window.location.href = "https://www.google.com"; } else { // If 'Cancel' is selected, display a message alert("You decided to stay."); } } </script> </body> </html> </pre>
7.	<pre> <!DOCTYPE html> <html> <head> <title>Mathematical Operations</title> </head> <body> <h1>Mathematical Operations</h1> <button onclick="performMathOperations()">Perform Operations</button> <script> function performMathOperations() { // Prompt the user to enter two numbers let num1 = parseFloat(prompt("Enter the first number:")); let num2 = parseFloat(prompt("Enter the second number:")); if (isNaN(num1) isNaN(num2)) { alert("Invalid input. Please enter valid numbers."); } else { // Addition let sum = num1 + num2; alert(`Addition Result: \${sum}`); // Subtraction let difference = num1 - num2; alert(`Subtraction Result: \${difference}`); // Division </pre>

	<pre> if (num2 !== 0) { let division = num1 / num2; alert(`Division Result: \${division}`); } else { alert("Cannot divide by zero."); } // Multiplication let product = num1 * num2; alert(`Multiplication Result: \${product}`); } } </script> </body> </html> </pre>
8.	<pre> <!DOCTYPE html> <html> <head> <title>Year of Birth from NIC</title> </head> <body> <h1>Year of Birth from NIC</h1> <label for="nic">Enter NIC:</label> <input type="text" id="nicInput"> <button onclick="getYearOfBirth()">Get Year of Birth</button> <script> function getYearOfBirth() { const nic = document.getElementById('nicInput').value.trim(); if (nic.length !== 13) { alert("Invalid NIC format. NIC number should be 13 characters long."); } else { // Assuming the year of birth is encoded in the first four digits of the NIC const yearOfBirth = nic.substring(0, 4); alert(`Year of Birth: \${yearOfBirth}`); } } </script> </body> </html> </pre>