

1	<p>Demonstration of Basics of JavaScript Program.</p> <ol style="list-style-type: none"> Understand what JavaScript is and its role in web development. Learn how to include JavaScript in HTML (inline, internal, external). Use console.log() and browser developer tools. <p>Case Study: - Create a webpage for college department and link the student information page with it and write a Java Script Program to Display “Welcome to SIT Nagpur” in an alert Box.</p>
2	<p>To perform Data different data types (string, number, boolean, etc.) and display them.</p> <ol style="list-style-type: none"> Learn primitive data types: string, number, boolean, undefined, null. Declare variables using var, let, and const Understand type coercion and type conversion <p>Case Study: - Develop the webpage for an online shopping website with using HTML,CSS and HTML5 tags And calculate the bill.</p>
3.	<p>Implement the given problem statements using java script using Conditional Statement.</p> <p>Case Study: - WAP to output Grade “C” if entered marks are between 50-65, “B” for 66-80 and “A” for 80-90 and “A+” for above 90.</p>
4.	<p>To study the Functions in JavaScript.</p> <ol style="list-style-type: none"> Define and call functions Use function expression and arrow function. Understand the concept of scope and closure. <p>Case Study: - Write a function to reverse a given number. Use this function to check whether a number is a palindrome or not.</p>
5.	<p>To study the functioning of Arrays and Loops in Java Script</p> <ol style="list-style-type: none"> Create and manipulate arrays: push, pop, shift, unshift, splice, slice. Use array methods: map(), filter(), reduce(), forEach(). <p>Case Study: - Create an array of numbers and find the maximum and minimum value.</p>
6.	<p>To perform various String operation using Java Script.</p> <ol style="list-style-type: none"> To perform Basics of string. Work with strings: substring (), indexOf(), split(), replace().

	<p>Case Study: -</p> <p>1. Write a program to reverse a string.</p> <p>2. WAP to count the number of vowels in a paragraph.</p>																
7.	<p>To Demonstrate the Events Handling in JavaScript</p> <p>a) Access and manipulate form elements using JavaScript. b) Validate user input (e.g., email, empty fields). c) Use Various form events (submit, change, focus)</p> <p>Case Study:- Create the following html form and use required JavaScript and events in a given form</p> <div> <p>*Mandatory to fill</p> <p>Firstname: <input type="text"/> *</p> <p>Lastname: <input type="text"/></p> <p>Birthday: Day <input type="text"/> Month <input type="text"/> Year <input type="text"/></p> <p>Username: <input type="text"/> *</p> <p>E-mail: <input type="text"/></p> <p>Website: <input type="text"/></p> <p>Password: <input type="text"/> *</p> <p>Re-password: <input type="text"/> *</p> <p><input type="checkbox"/> I agree to the terms & conditions.</p> <p>Sign up</p> </div>																
8.	<p>Design a Registration form for Gym Admission and use the appropriate the Form Validation and Events of JavaScript.</p> <div> <table border="1"> <thead> <tr> <th>Name</th><th>Value</th></tr> </thead> <tbody> <tr> <td>Name</td><td><input type="text"/></td></tr> <tr> <td>Sex</td><td> <input type="radio"/> Male <input checked="" type="radio"/> Female </td></tr> <tr> <td>Eye color</td><td><input type="text" value="green"/></td></tr> <tr> <td>Check all that apply</td><td> <input type="checkbox"/> Over 6 feet tall <input type="checkbox"/> Over 200 pounds </td></tr> <tr> <td colspan="2">Describe your athletic ability:</td></tr> <tr> <td colspan="2"><input type="text"/></td></tr> <tr> <td colspan="2"><input type="button" value="Enter my information"/></td></tr> </tbody> </table> </div>	Name	Value	Name	<input type="text"/>	Sex	<input type="radio"/> Male <input checked="" type="radio"/> Female	Eye color	<input type="text" value="green"/>	Check all that apply	<input type="checkbox"/> Over 6 feet tall <input type="checkbox"/> Over 200 pounds	Describe your athletic ability:		<input type="text"/>		<input type="button" value="Enter my information"/>	
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9	<p>Create a Schedule Planner for Given table and Shows the Alert Box() in Click Event.</p>																

Create following table using HTML tags

Day	Seminar		
	Schedule		Topic
	Begin	End	
Monday	8:00 a.m.	5:00 p.m.	Introduction to XML
			Validity: DTD and Relax NG
Tuesday	8:00 a.m.	11:00 a.m.	XPath
	11:00 a.m.	2:00 p.m.	
	2:00 p.m.	5:00 p.m.	XSL Transformations
Wednesday	8:00 a.m.	12:00 p.m.	XSL Formatting Objects

10. Implement the Web Application a anyone in a given topic.
- 1.Create the following form using html tags for ticket booking of Technical Workshop for students. (Consider the fields for entry to collect data.)
 2. Create a html form online music concert event registration.
 - 3.Create an html page with following specifications:

Title should be about myCity Place your City name at the top of the page in large text and in blue color Add names of landmarks in your city each in a different color, style and typeface One of the landmark, your college name should be blinking . Add scrolling text with a message of your choice.
 4. Design a static web page using HTML to display information about Smart India Hackathon, which includes the following:
 - Headings and paragraphs
 - Line breaks and horizontal
 - Format the text by using formatting tags (Font & Color)
 Create a navigation bar and provide links to various web pages like About, Achievements, Placements, etc.
 5. Write a HTML code to generate a webpage for online Rakhee Store. Add CSS to make it more appealing .