

		ITER, SIKSHA 'O' ANUSANDHAN (Deemed to be University)		Lab Assignment
Branch	Computer Application	Programme	MCA	
Course Name	Full Stack Web Development 1	Semester	I	
Course Code	CA3117	Academic Year	2025/Odd	
Assignment- 6	Topic: Making Web Pages Interactive with JavaScript			GP - 2
Learning Level (LL)	L1: Remembering	L3: Application	L5: Evaluation	
	L2: Understanding	L4: Analysis	L6: Creation	
Q's	Questions			COs LL
1	Explain the differences between substring() , substr() , and slice() in JavaScript strings, and illustrate each method with appropriate examples.			CO4 L4
2	Write a JS Program to demonstrate the functionality of all the following methods, applied with Array & also attach the Output: a. push() b. pop() c. shift() d. unshift() e. splice() f. reverse() g. sort()			CO4 L6
3	Design a DOM Tree for the following HTML code: <pre> <html> <head> <meta charset="ISO-8859-1"> <title>Insert title here</title> </head> <body> <h1>Hello IWT Class</h1> <p align="center"> All Students are there </p> </body> </html> </pre>			CO4 L6
4	Write a JS Program to demonstrate the functionality of all of the following DOM methods & some JavaScript properties (used along with these methods), to manipulate HTML documents & also attach the Output: a. getElementById() b. getElementsByClassName() c. getElementsByTagName() d. innerHTML e. innerText			CO4 L6
5	Write a JS Program to demonstrate the functionality of the following DOM methods i.e., work as <i>CSS Selectors</i> , manipulate HTML documents & also attach the Output: a. querySelector() b. querySelectorAll()			CO4 L6

7	Design a Login Page with <form> tag & implement Validation with the help of Traditional Method . If valid, then redirect to another HTML page with an alert message i.e. “ <i>Successfully Login</i> ” and, if not, then throw the specific alert message & focus the text cursor to that input box. (Attach the Output)	CO3	L6
8	Design a Login Page with <form> tag & implement Validation with the help of Regular Expression (Regex) . If valid, then redirect to another HTML page with an alert message i.e. “ <i>Successfully Login</i> ” and, if not, then throw the specific alert message & focus the text cursor to that input box. (Attach the Output) <ul style="list-style-type: none"> ○ The Username should consist of Alpha-Numeric form like at least 1 Uppercase, 1 Lowercase & 1 Number. (Ex: <i>AbcXyz123</i>) ○ The Password should consist of Alpha-Numeric with Special Symbol like at least 1 Uppercase, 1 Lowercase, 1 Number & 1 Special Character. (Ex: <i>XyAb@12#</i>) 	CO3	L6
9	Design a Login Page with <form> tag & apply JavaScript to show or hide the Password by using the eye or eye-slash icon, whenever you will click on it. (Attach the Output) <p>Use the following CSS file to apply the above-mentioned icon:</p> <p><link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"></p>	CO3	L6
10	Design a Registration Page with <form> tag & apply JavaScript to preview the file (i.e. .jpg, .png, .jpeg, .pdf, .doc, etc) selected by yourself for Final Submission or Uploading purposes. Whenever you will click on the “ preview ” button, the selected file will be shown in a particular section of the webpage. (Attach the Output)	CO3	L6
6	Write a JS Program to demonstrate the functionality of all of the following DOM methods i.e., used along with document object, to manipulate HTML document & also attach the Output: <ul style="list-style-type: none"> a. createElement() b. appendChild() 	CO4	L6

Note:

1. Assignment carries a weightage of **20 marks out of 100**.

Course outcome CO4 was covered.

Course Outcomes	CO1	Explain fundamental concepts of web development, including client–server interaction, software stacks, and developer tools.
	CO2	Create structured web pages using HTML elements, attributes, forms, links, tables, and multimedia.
	CO3	Apply CSS for styling and layout, utilizing selectors, positioning, flexbox, and grid systems to design visually appealing pages.
	CO4	Develop interactive and dynamic web pages using JavaScript, DOM manipulation, events, and Web APIs.
	CO5	Demonstrate best practices in accessibility, responsive design, and performance by applying standards, testing tools, and assistive technologies.
	CO6	Build modern frontend applications by integrating CSS preprocessors, React-based single-page applications, and cross-platform mobile development using React Native.