

## 1. Course Contents – Full Stack Development Laboratory Programs List

Sr No.	Programs	Page No.
1	<p>Create an XHTML page that provides information about the MCA department, at Graphic Era University. The XHTML page must use the following tags:</p> <ul style="list-style-type: none"> <li>• Links - Anchor tag</li> <li>• Images</li> <li>• Tables</li> </ul> <p>(If needed use other tags for better presentation)</p>	4
2	Create an XHTML page that demonstrates the usage of lists and tables	7
3	Create an XHTML page that displays a Form with all types of controls (Text Boxes, Radio buttons, Checkboxes, Dropdown, Submit, and Reset buttons) with proper formatting.	10
4	Develop a web page and demonstrate the usage of inline style, internal style, and external style sheets using CSS.	15
5	Write a JavaScript function called "MaxandMinofArray" that accepts an array of integers as a parameter and displays the largest and smallest number in the array. Test the function with different inputs. Embed the JavaScript function within the XHTML document.	18
6	Write a JavaScript function called "SumofDigits" that accepts a number as a parameter and returns the sum of all digits of that number. Test the function with different inputs. Write the JavaScript function in a separate .js file	21
7	Create an XHTML document with two buttons. Write a JavaScript function that triggers an alert message when the button is clicked. It should display the message "First button is clicked" or "Second button is clicked" depending on the button being clicked.	
8	Create an XHTML page with 3 paragraphs displayed using different colors. Implement a JavaScript function that changes the font color of a paragraph to blue when a user hovers over it and reverts it back to the original color when the mouse leaves.	
9	Create an XHTML document with a form that collects the mobile number. On submitting the form validate the input using an event handler. The mobile number should be a 10-digit number. On validating display, a success or failure message using "alert()".	

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10	Write a PHP program using COOKIE to store the current date and time and on reopening the same web page display the "Last visited date and time".	
11	Write a PHP program to demonstrate the use of SESSIONS to increment a count on each page refresh, and display the same on the web page.	
12	Create a React Application to display the message "Developing using ReactJS, Graphic Era University".	

### Full Stack Development Laboratory Programs

5. Write a JavaScript function called "MaxandMinofArray" that accepts an array of integers as a parameter and displays the largest and smallest number in the array. Test the function with different inputs. Embed the JavaScript function within the XHTML document.

Program 5:

"prg5-MaxMin.html"

```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html>
<html>
<head>
  <script type="text/javascript" >
    function MaxandMinofArray(ary)
    {
      var amax = ary[0];
      var amin = amax;
      for(var i=1;i < ary.length; i++)
      {
        if ( ary[i] < amin )
        {
          amin = ary[i];
        }
        if ( ary[i] > amax )
        {
          amax = ary[i];
        }
      }
      document.writeln("<br/><br/><b>The maximum element in the array  
is : ",
                      amax );
      document.writeln("<br/><b>The minimum element in the array is :  
",
```

```
        amin);

    }
</script>
</head>

<body>

<h3> Program to find maximum and minimum  number in an array </h3>

<script language="javascript">
    var ary = new Array();
    var x;
    do
    {
        n=prompt("Enter the number of elements to be stored in the
array","");
        if (n <= 0)
            alert("Invalid Input");
    }while(n<=0);

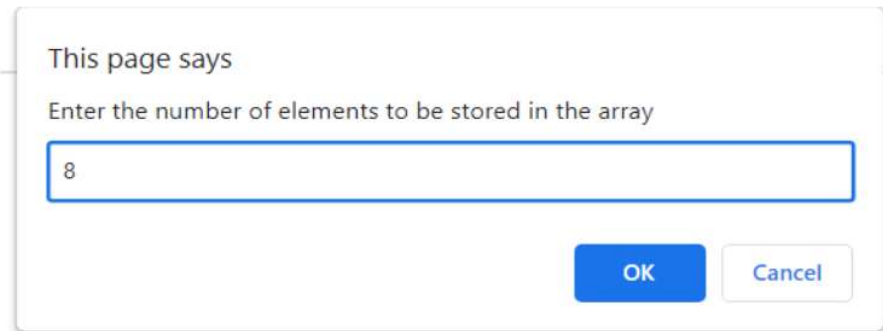
    i = 0 ;
    for (i=0; i<n ; i++)
    {
        x = prompt("Enter the element","");
        ary[i] = parseInt(x);
    }

    document.write("<b> There are ", n, " elements in the array
<br/><br/>");

    document.write("<b> Array elements are : <br/>");
    for (i=0;i<n; i++)
        document.writeln("<b>", ary[i], " ");
        MaxandMinofArray(ary);           //function call
</script>
</body>
```

```
</html>
```

**Program 5 - Output:**



A screenshot of a web application's input dialog. The dialog has a title bar that says "This page says". Below the title bar, there is a text prompt "Enter the number of elements to be stored in the array". A text input field contains the number "8". At the bottom right of the dialog, there are two buttons: "OK" (blue) and "Cancel" (white with a blue border).

**Program to find maximum and minimum number in an array**

**There are 8 elements in the array**

**Array elements are :  
14 45 3 78 90 26 82 38**

**The maximum element in the array is : 90**

**The minimum element in the array is : 3**

6. Write a JavaScript function called "SumofDigits" that accepts a number as a parameter and returns the sum of all digits of that number. Test the function with different inputs. Write the JavaScript function in a separate .js file.

Program 6:

"prg6-SumofDigits.html"

```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html>
<html>
<head>
    <script type="text/javascript" src="prg6-SumofDigits.js" >
    </script>
</head>
<body>
    <h3> Program to find Sum of Digits of a Number </h3>
    <script language="javascript">
        var n=0;
        var sumnum=0;
        /* Enter a valid number */
        do
        {
            n=parseInt(prompt("Enter the number ","0"));
            if (n <= 0)
                alert("Invalid Input");

            }while(n<=0);
        document.write("<br /> <b>The entered number is ", n);
        /* Function call and storing the returned value in the variable sumnum */
        sumnum = SumofDigits(n);
        document.writeln("<br/><br/> Sum of digits of the number ",
```

```
n,
        " is : ",sumnum);
</script>
</body>
</html>
```

**"prg6-SumofDigits.js"**

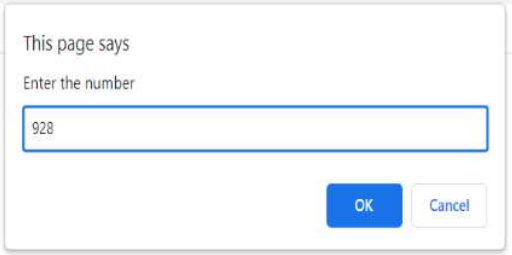
```
function SumofDigits(num)
{
    var temp = num;
    var nsum = 0;
    var rem = 0;

    while (num > 0)                // while num not equal to 0
    {
        rem = num % 10;            // remainder = number
        modulus 10
        nsum = nsum + rem;          // add remainder to nsum
        num = parseInt(num / 10);  // divide number by 10

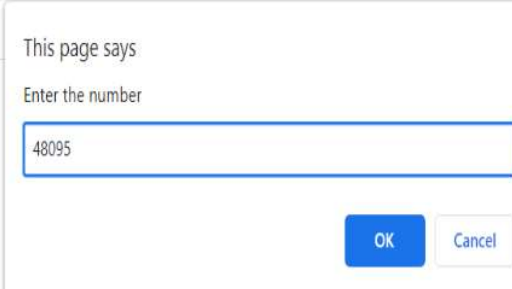
    }
    return nsum;
}
```

**Program 6 – Output :**

**Output 1:**

	<p><b>Program to find Sum of Digits of a Number</b></p> <p>The entered number is 928</p> <p>Sum of digits of the number 928 is : 19</p>
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**Output 2:**

	<p><b>Program to find Sum of Digits of a Number</b></p> <p>The entered number is 48095</p> <p>Sum of digits of the number 48095 is : 26</p>
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