

# Web-Lab-Observation

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classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

- 1 Write a JavaScript to design a simple calculator to perform the following operations : sum, product, difference and quotient.

Program 1. html

```
<!DOCTYPE>
<html>
<head>
    <link rel = "stylesheet" href = "sty.css"/>
</head>
<center>
<body>
    <form name = "calculator">
        <table border = "3">
            <tr><td colspan = "4"><input name = "display" id = "display"
                readonly></td></tr>
            <tr>
                <td><input type = "button" value = "1" onclick = "calculator.display
                    .value += '1'"></td>
                <td><input type = "button" value = "2" onclick = "calculator.display
                    .value += '2'"></td>
                <td><input type = "button" value = "3" onclick = "calculator.display
                    .value += '3'"></td>
                <td><input type = "button" value = "4" onclick = "calculator.display
                    .value += '4'"></td>
            </tr>
            <tr>
                <td><input type = "button" value = "5" onclick = "calculator.display
                    .value += '5'"></td>
                <td><input type = "button" value = "6" onclick = "calculator.display
                    .value += '6'"></td>
```

<td><input type="button" value="-" onclick="calculator.display  
· value += '-'"></td>  
</tr>

<tr>  
<td><input type="button" value="7" onclick="calculator.display  
· value += '7'"></td>

<td><input type="button" value="8" onclick="calculator.display  
· value += '8'"></td>

<td><input type="button" value="9" onclick="calculator.display  
· value += '9'"></td>

<td><input type="button" value="\*" onclick="calculator.display  
· value += '\*'></td>

</tr>

<tr>  
<td><input type="button" value="." onclick="calculator.display  
· value += '.'></td>

<td><input type="button" value="0" onclick="calculator.display  
· value += '0'"></td>

<td><input type="button" value="/" onclick="calculator.display  
· value = eval(calculator.display.value)">

<td><input type="button" value="/" onclick="calculator.display  
· value += '/'></td>

</tr>

<tr>  
<td><input type="button" value="c" onclick="calculator.display  
· value = ''></td>

<td><input type="button" value="%" onclick="calculator.display  
· value += '%'></td>

</tr>

</table>

</form>

</body>

</center>

</html>

Output:

				C
1	2	3	+	
4	5	6	-	
7	8	9	*	
.	0	=	/	

Test Cases :

Test No	Input Parameters	Expected output	Obtained output	Remarks
1.	Value1 = 50.56 Value2 = 24.39	Addition = 74.95 Subtraction = 26.17 Multiplication = 1233.1584	Addition = 74.95 Subtraction = 26.17 Multiplication = 1233.1584	PASS
2.		Division = 2.072980729807298	Division = 2.072980729807298 07298	
3.	Value1 = 45 Value2 = 0	Addition = 45 Subtraction = -45 Multiplication = 0 Division = 0	Addition = 45 Subtraction = -45 Multiplication = 0 Division = 0	PASS
4.	Value1 = abc Value2 = 23	Addition = 45 Subtraction = 45 Multiplication = 0 Division = infinity	Addition = 45 Subtraction = 45 Multiplication = 0 Division = infinity	PASS
5.	Value1 = 50 Value2 = xyz	ENTER VALID NUMBER	ENTER VALID NUMBER	PASS

2. Write a JavaScript that calculates the squares and cubes of the numbers from 0 to 10 and outputs HTML text that displays the resulting values in an HTML table format.

Program 2.html

```
<html>
<head>
<script>
document.write('<h1 align = "right"> Squares and Cubes of the
numbers from 0 to 10</h1>');
document.write('<center><table width = "30%" border = "1"
bgcolor = "white">');
document.write(" <tr><th> Number <th> Square <th>
<th> Cube </th></tr>");
for (var n=0;n<=10;n++)
{
    document.write("<tr><td>" + n + "<td><td>" + n * n + "<td>
<td>" + n * n * n + "</td></tr>");
}
document.write("</table>");
</script>
</head>
</html>
```

Output:NUMBERS FROM 0 TO 10 WITH THEIR  
SQUARES AND CUBES

Number	Square	Cube
0	0	1
1	1	1
2	4	8
3	9	27
4	16	64
5	25	125
6	36	216
7	49	343
8	64	512
9	81	729
10	100	1000

3. Write a JavaScript code that displays text "TEXT-GROWING" with increasing font size in the interval of 100ms; RED COLOR, when the font size reaches 50pt it displays "TEXT-SHRINKING" in BLUE color. Then the font size decreases to 5pt.

Program3.html

```
<!DOCTYPE html>
<html>
<body>
<p id = "myP1"> TEXT-GROWING </p>
<p id = "myP2"> TEXTSHRINKING </p> </body>
<script>
//Global declarations
var size = 10;
var i = 0;
var myWait1 = setInterval(GrowText1, 100);
function GrowText()
{
    if (size < 51)
    {
        size = size + 1;
        document.getElementById("myP1").style.fontSize = (size + 'pt');
        document.getElementById("myP1").style.color = "red";
        // Hide the paragraph "text-shrinking" document.getElementById("myP2").style.visibility = "hidden";
    }
    else
    {
        clearInterval(myWait1);
        myWait1 = setInterval(ShrinkText1, 100);
        // Now hide the 1st paragraph and display the second
        second paragraph
    }
}
```

```
document.getElementById("myP1").style.visibility = "hidden";
document.getElementById("myP1").style.fontSize = "1pt";
document.getElementById("myP2").style.visibility = "visible";
}
}
function ShrinkText()
{
if (size > 5)
{
size = size - 1;
document.getElementById("myP2").style.fontSize = (size + "pt");
}
```

Output:

TEXT GROWING

TEXT SHRINKING

4. Develop and demonstrate a HTML5 file that includes JavaScript script that uses functions for the following problems:

- Parameter : A string
- Output : The position in the string of the left-most vowel
- Parameter : A number
- Output : The number with its digits in the reverse order

Program4.html

```
<!DOCTYPE HTML>
<html>
<body>
<script type = "text/javascript">
var str = prompt ("Enter the Input", "");
if (!isNaN(str))
{
    var num, rev = 0, remainder;
    num = parseInt (str);
    while (num != 0)
    {
        remainder = num % 10;
        num = parseInt (num / 10);
        rev = rev * 10 + remainder;
    }
    alert ("Reverse of "+str+" is "+rev);
}
else
{
    str = str.toUpperCase ();
    for (var i=0 ; i < str.length ; i++)
    {
        var chr = str.charAt(i);
        if (chr == 'A' || chr == 'E' || chr == 'O' || chr == 'U')
            break;
    }
}
```

```
if (i < str.length)
    alert ("The position of the left most vowel is "+(i+1));
else
    alert ("No vowel found in the entered string");
}
</script>
</body>
</html>
```

Output:

The image shows a screenshot of a web browser. At the top, there is a dialog box with the title "Enter the input". Inside the dialog, the text "123456" is entered into a text input field. Below the input field are two buttons: "cancel" and "ok". The "ok" button is highlighted with a mouse cursor. In the main browser window below the dialog, the text "Reverse of 123456 is 654321" is displayed. There is also a checkbox with the text "Prevent this page from creating additional dialogs". A second "ok" button is located at the bottom right of the main browser window.

Enter the input	
channasandra	
<input type="button" value="cancel"/>	<input type="button" value="ok"/>
The position of the leftmost vowel is 3 <input checked="" type="checkbox"/> Prevent this page from creating additional dialogs	
<input type="button" value="OK"/>	

### Test Cases :

Test No.	Input Parameters	Expected Output	Obtained Output	Remarks
1.	123	Reverse of 123 is 321	Reverse of 123 is 321	PASS
1.	CHANNA SANDRA	The position of the leftmost vowel is 3	The position of the leftmost vowel is 3	PASS
2.	Sky	No vowel found in the entered string	No vowel found in the entered string	PASS
3.	MNKTO	The position of the leftmost vowel is 5	The position of the leftmost vowel is 5	PASS

5. Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, and Name of the college, Branch, Year of Joining, and email id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.

Program 5. xml

```
<?xml-stylesheet type="text/css" href = "5.css"?>
<!DOCTYPE HTML>
<html>
  <head>
    <h1> STUDENT DESCRIPTION </h1>
  </head>
  <student>
    <student>
      <usn> USN : 4SU17CS001 </usn>
      <name> NAME : SANTHOSH </name>
      <college> COLLEGE : SDMITS </college>
      <branch> BRANCH : Computer Science & Engg </branch>
      <year> YEAR : 2017 </year>
      <e-mail> E-Mail : santhoshmanorangan@gmail.com </e-mail>
    </student>
    <student>
      <usn> USN : 4SU17CS003 </usn>
      <name> NAME : CHETHAN </name>
      <college> COLLEGE : SDMITS </college>
      <branch> BRANCH : Computer Science & Engg </branch>
      <year> YEAR : 2017 </year>
      <e-mail> E-Mail : chethan@gmail.com </e-mail>
    </student>
    <student>
      <usn> USN : 4SU17CS002 </usn>
```

<name> NAME : Manoranjan </name>

<college> COLLEGE : SDMIT </college>

<branch> BRANCH : Computer Science and Engg </branch>

<year> YEAR : 2017 </year>

<e-mail> E-MAIL : Manoranjan@gmail.com </g-mail>

</student>

</students>

</html>

Program5.css

Student {

    display: block; margin-top: 10px; color: Navy;

}

    VSN {

        display: block; margin-left: 10px; font-size: 14pt; color: Red;

}

    name {

        display: block; margin-left: 20px; font-size: 14pt; color: Blue;

}

    college {

        display: block; margin-left: 20px; font-size: 10pt; color: Maroon;

}

    branch {

        display: block; margin-left: 20px; font-size: 10pt; color: purple;

}

    year {

        display: block; margin-left: 20px; font-size: 14pt; color: green;

}

    e-mail {

        display: block; margin-left: 20px; font-size: 12pt; color: blue;

}

Output:

### STUDENT DESCRIPTION

USN : USU17CS001

NAME: SANTHOSH

COLLEGE : SDM IT

BRANCH : Computer Science and Engg

YEAR : 2017

E-mail : Santhosh@gmail.com

USN: USU17CS002

NAME: MANORANJAN

COLLEGE: SDM IT

BRANCH: Computer Science and Engg

YEAR : 2017

E-mail : manoranjan@gmail.com

USN : USU17CS003

NAME: CHETHAN

COLLEGE: SDM IT

BRANCH: Computer Science and Engineering

YEAR : 2017

E-mail : chethan@gmail.com.

6 Write a PHP program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings.

Program 6. PHP

<?php

```
print "<h3> REFRESH PAGE </h3>";  
$name = "counter.txt";  
$file = fopen($name, "r");  
$hits = fscanf($file, "%d");  
fclose($file);  
  
$hits[0]++;  
$file = fopen($name, "w");  
fprintf($file, "%d", $hits[0]);  
fclose($file);  
print ("Total number of views: " . $hits[0]);  
?>
```

Output:

REFRESH PAGE

Total number of views: 10

7. Write a PHP program to display a digital clock which displays the current time of the server.

Program 7.php

```
<!DOCTYPE HTML>
<html>
<head>
<meta http-equiv="refresh" content="1" />
<style>
p {
    color: white;
    font-size: 90px;
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%, -50%);
}
body {background-color: black; }
</style>
<p><?php echo date("h:i:s A"); ?></p>
</head>
```

Output:

10:44:08 AM
-------------

10. Write a PHP program to sort the student records which are stored in the database using selection sort.

Go to MySQL and run type

```
create database weblab;
```

```
use weblab;
```

```
create table student (usn varchar(10), name varchar(20),  
address varchar(20));
```

Program 10.php

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<style>
```

```
table, td, th
```

```
{
```

```
border: 1px solid black;
```

```
width: 33%;
```

```
text-align: center;
```

```
borders-collapse: collapse;
```

```
background-color: lightblue;
```

```
}
```

```
table { margin: auto; }
```

```
}
```

```
</style>
```

```
<?php
```

```
$servername = "localhost";
```

```
$username = "root";
```

```
$password = "root";
```

```
$dbname = "weblab";
```

```
$a = [];
```

// Create connection

// Opens a new connection to the MySQL server

```
$conn = mysqli_connect($servername, $username,
```

```

$password, $dbname);
// Check connection and return an error description from
// the last connection error, if any
if ($conn->connect_error)
    die ("connection failed : ". $conn->connect_error);
$sql = "SELECT * FROM student";
// Performs a query against the database
$result = $conn->query($sql);
echo "<br>";
echo "<center> BEFORE SORTING </center>";
echo "<table border='2'>";
echo "<tr>";
echo "<th>USN</th><th>NAME</th><th>Address</th>
</tr>";
if ($result->num_rows > 0)
{
    // Output data of each row and fetches a result row
    // as an associative array.
    while ($row = $result->fetch_assoc())
    {
        echo "<tr>";
        echo "<td>". $row["Usn"]. "</td>";
        echo "<td>". $row["name"]. "</td>";
        echo "<td>". $row["addr"]. "</td></tr>";
        array_push ($a, $row["usn"]);
    }
}
else
{
    echo "Table is Empty";
    echo "</table>";
    $n = count ($a);
    $b = $a;
    for ($i=0 ; $i < ($n-1) ; $i++)
}

```

```

$pos = $i;
for ($j = $i + 1; $j < $n; $j++) {
    if ($a[$pos] > $a[$j])
        $pos = $j;
}
if ($pos != $i) {
    $temp = $a[$i];
    $a[$i] = $a[$pos];
    $a[$pos] = $temp;
}
$c = [];
$d = [];
$result = $conn -> query ($sql);
if ($result -> num_rows > 0) // of data of each row
{
    while ($row = $result -> fetch_assoc()) {
        for ($i = 0; $i < $n; $i++) {
            if ($row["usn"] == $a[$i]) {
                $c[$i] = $row["name"];
                $d[$i] = $row["addr"];
            }
        }
    }
}
echo "<br>";
echo "<center> AFTER SORTING </center>";
echo "<table border='1'>";
echo "<tr>";
echo "<th> USN </th> <th> NAME </th> <th> Address </th>";
for ($i = 0; $i < $n; $i++) {
    echo "<tr>";
    echo "<td>". $a[$i]. "</td>";
    echo "<td>". $c[$i]. "</td>";
    echo "<td>". $d[$i]. "</td>";
}

```

```

echo "<td>". $d[$i]. "</td></tr>";
}
echo "</table>";
$conn->close();
?>
</body>
</html>

```

Output:

## BEFORE SORTING

USN	NAME	Address
USU17CS019	Niranjini	Bengaluru
USU17CS008	Darshan	Mysuru
USU17CS004	Anusha	Ujire
USU17CS042	Vandana	Belthangady.

## AFTER SORTING

USN	NAME	Address
USU17CS004	Anusha	Ujire
USU17CS008	Darshan	Mysuru
USU17CS019	Niranjini	Bengaluru
USU17CS042	Vandana	Belthangady.