

## Lab program 1.

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

Program:

```
<!DOCTYPE html>
<html>
<head> <title> Web Lab Pgm 1 </title>
<style>
body{
    text-align: center;
}
.title{
    border-radius: 45px;
    margin-bottom: 30px;
    text-align: center;
    padding: 14px, 13px;
    width: 1000px;
    color: red;
    background-color: red;
    border: solid black 2px;
}
input [type = "text"] {
    border-radius: 10px;
    text-align: right;
    background-color: gold;
    width: 94%;
}
input [type = "button"] {
    border-radius: 20px;
    background-color: blue;
    color: white;
    border-color: white;
    width: auto;
}
```

```
tit {
    border-radius: 45px;
    margin-bottom: 30px;
    text-align: center;
    width: 150px;
    color: red;
    background-color: pink;
    border: solid black 3px;
}

</style>

<script>
    function disp(val) {
        document.getElementById('SDM1').value += val;
    }

    function del() {
        document.getElementById('SDM1').value = '';
    }

    function value() {
        let x = document.getElementById('SDM1').value;
        let y = eval(x);
        document.getElementById('SDM1').value = y;
    }
</script>

<head>
<body>
    <div class="title"> SDM JAVASCRIPT LAB PROGRAMME </div>
    <center>
        <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; margin: auto;">
            <tr>
                <td>
                    <input type="button" value="CE" onclick="del()" />
                <td>
                    <input type="text" id="SDM" />
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    <input type="button" value="#" onclick="disp(1)" />
                <td>
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    <input type="button" value="#" onclick="disp(2)" />
                <td>
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    <input type="button" value="#" onclick="disp(3)" />
                <td>
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    <input type="button" value="#" onclick="disp(4)" />
                <td>
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    <input type="button" value="#" onclick="disp(5)" />
                <td>
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    <input type="button" value="#" onclick="disp(6)" />
                <td>
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    <input type="button" value="#" onclick="disp(7)" />
                <td>
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    <input type="button" value="#" onclick="disp(8)" />
                <td>
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    <input type="button" value="#" onclick="disp(9)" />
                <td>
                <td>
                </td>
            </tr>
            <tr>
                <td>
                    <input type="button" value="#" onclick="disp(0)" />
                <td>
                <td>
                </td>
            </tr>
        </table>
    </center>
</body>

```

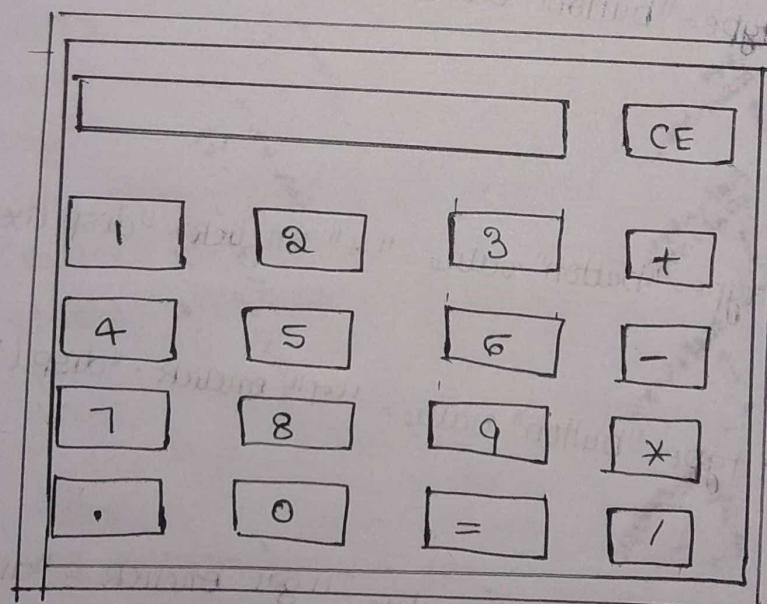
```
<input type = "button" value = "1" onclick = "disp(11)">
</td>
</td>
<input type = "button" value = "2" onclick = "disp(12)">
</td>
</td>
<input type = "button" value = "3" onclick = "disp(13)">
</td>
</tr>
<tr>
<td>
<input type = "button" value = "-1" onclick = "disp(-1)">
</td>
</td>
<input type = "button" value = "H" onclick = "disp(H1)">
</td>
</td>
<input type = "button" value = "5" onclick = "disp(15)">
</td>
</td>
<input type = "button" value = "0" onclick = "disp(16)">
</td>
</td>
</tr>
<tr>
<td>
<input type = "button" value = "*" onclick = "disp(1*)">
</td>
</td>
<input type = "button" value = "9" onclick = "disp(19)">
</td>
</td>
<input type = "button" value = "8" onclick = "disp(18)">
</td>
</td>
<input type = "button" value = "9" onclick = "disp(19)">
</td>
</td>
</tr>
<tr>
```

```

<td>
  <input type = "button" value = "1" onclick = "disp ('1')">
<td>
  <input type = "button" value = "2" onclick = "disp ('2')">
<td>
  <input type = "button" value = "3" onclick = "disp ('3')">
<td>
  <input type = "button" value = "0" onclick = "disp ('0')">
<td>
  <input type = "button" value = "=" onclick = "solve ()">
<td>
<tr>
<table>
<center>
<tbody>
</html>

```

Output:



## Lab program 2.

- 2) Write a javascript that calculates the squares and cubes of the numbers from 0 to 10 and output html text that displays the resulting values in an HTML table format.

Program:

```
<!DOCTYPE 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">
<tr><th> Number <th> Square
<th> Cube </th></tr></table>');
for (var n=0; n<=10; n++)
{
    document.write('<tr><td>' + n + '<td>' + n * n +
'<td>' + n * n * n + '</td></tr>');
}
document.write('</table>');
</script>
</head>
</html>
```

Output:

Number from 0 to 10 with their squares & cube

Number	Square	Cube
0	0	0
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.

### Lab program 3.

- 3) write a javascript code that displays text "Text-Growing" with increasing font size in the interval of 100ms in red color. When the font size reaches 50pt it displays "Text-Shrinking" in blue color. Then the font size decreases to 5pt.

```
<!DOCTYPE html>
```

```
<html>
  <head>
    <title>JS text Program </title>
  </head>
  <body>
    <div style="margin-top: 200px; align: center">
      <p> <input type="text" /> </p>
    </div>
    <script>
      var text = document.querySelector('input');
      var font = 5;
      var flag = 0;
      function inc() {
        font++;
        text.style.fontSize = font + 'pt';
        text.style.color = 'red';
        text.textContent = "TEXT-GROWING";
        if (font == 50) {
          flag = 1;
        }
      }
      function dec() {
        font--;
        text.style.fontSize = font + 'pt';
        text.style.color = 'blue';
        text.textContent = "TEXT-SHRINKING";
        if (font == 5) {
          flag = 0;
        }
      }
      var interval = setInterval(inc, 100);
      if (flag == 1) {
        setInterval(dec, 100);
      }
    </script>
  </body>
</html>
```

```
function dec() {  
    font--;  
    text.style.fontSize = font + "pt";  
    text.style.color = "blue";  
    text.textContent = "Text-Shrinking:" + font + "pt";  
    if (font == 5) {  
        flag = 0;  
    }  
}
```

Var time = SetInterval Function () {  
 if (flag == 1) {  
 dec();  
 }  
 if (flag == 0) {  
 incl();  
 }  
}, 100);  
</script>  
</body>  
</html>

Output:

TEXT-GROWING.

TEXT-SHRINKING.

#### Lab program 4.

- 4) Develop and demonstrate a HTML5 file that include javascript script that users 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 reverse order.

#### Program:

```
<!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 char = str.charAt(i);
```

```

if (chr == 'A' || chr == 'E' || chr == 'I' || 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");

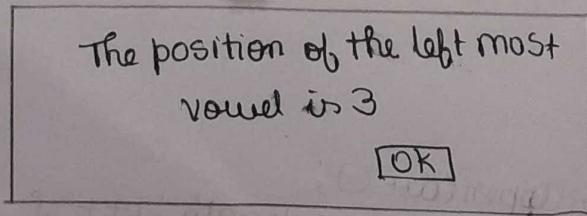
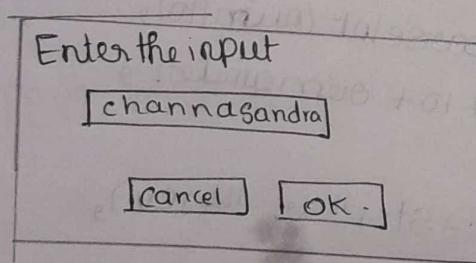
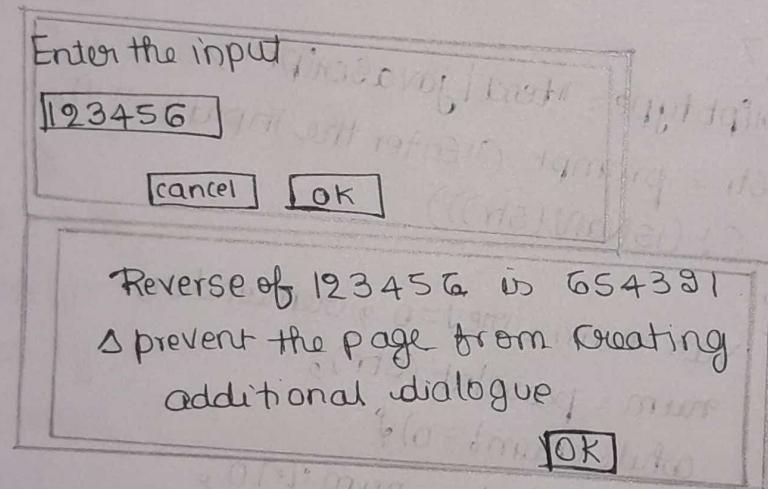
```

</script>

</body>

</html>

### Output:



## Lab program 5

- 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. makeup sample data for 3 students Create a CSS style sheet & use it to display the document.

### Pgm5: xml

```
<?xml-stylesheet type = "text/css" href = "5.css"?>
<!DOCTYPE html>
<html>
  <head>
    <title> Students description </title>
  </head>
  <body>
    <h1> Students description </h1>
    <h2> Students </h2>
    <student>
      <usn> USN : 4SU17CS001 </usn>
      <name> NAME: AMULYA </name>
      <college> COLLEGE : SDM IT </college>
      <branch> BRANCH : Computer Science and Engineering Branch </branch>
      <year> YEAR : 2017 </year>
      <email> Email : amu@gmail.com </email>
    </student>
    <student>
      <usn> USN : 4SU17CS002 </usn>
      <name> NAME: BINDU </name>
      <college> COLLEGE : SDM IT </college>
      <branch> BRANCH : CSE </branch>
      <year> YEAR : 2017 </year>
      <email> Email : bin@gmail.com </email>
    </student>
  </body>
</html>
```

<|student>

<student>

<usn> USN : 4SU17CS003 </usn>

<name> NAME : Divya </name>

<college> COLLEGE : SDMIT </college>

<branch> BRANCH : CSE </branch>

<year> YEAR : 2017 </year>

<email> Email : Divya@gmail.com </email>

<|Student>

<|Students>

<|html>

Programs.css:

Student {

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

}

USN {

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

g

name {

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

g

College {

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

g

branch {

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

g

year {

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

g

email {  
display: block; margin-left: 20px; font-size: 12px;  
color: blue; }  
The above code creates a list item with a left margin of 20px, a font size of 12px, and the color blue.

### Output:

Student Description:

USN: 4SU17S001

NAME: AMULYA

COLLEGE: SDM IT

BRANCH: CSE

Year: 2017

Email: amulya@gmail.com

USN: 4SU17S002

NAME: BINDU

COLLEGE: SDM IT

BRANCH: CSE

YEAR: 2017

Email: bindu@gmail.com

USN: 4SU17S003

NAME: Divya

COLLEGE: SDM IT

Branch: CSE

Year: 2017

Email: Divya@gmail.com

### Lab program 6.

- 6). Write a PHP program to keep track of the number of visitors visiting the web page and to display their count of visitors with pgm 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 no of views : ". $hits[0]);  
?>
```

O/P:

REFRESH Page

Total number of views: 10

## Lab program 7.

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

Program7.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

## Lab program 10.

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

Go to MySQL and then type:

```
create database weblab;
```

```
use weblab;
```

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

pgm10.php:

```
<!DOCTYPE HTML>  
<html>  
<body>  
<style>  
table, td, th  
{  
border: 1px solid black;  
width: 33%;  
text-align: center;  
border-collapse: collapse;  
background-color: lightblue;  
}  
table {margin: auto;}  
</style>  
<?php
```

```
$servername = "localhost";  
$username = "root";  
$password = "root";  
$dbname = "weblab";  
$a = [ ];
```

```

$conn = mysqli_connect ($servername, $username,
                      $password, $dbname);

if ($conn->connect_error)
    die ("connection failed : ". $conn->connect_error);

$sql = "SELECT * FROM student";
$result = $conn->query ($sql);
echo "<br>";
echo "<center> Before sorting </center>";
echo "<table border=1>";
echo "<tr>";
echo "<th> USN </th> <th> NAME </th> <th> Address </th> </tr> <br>";
if ($result->num_rows > 0)
{
    while ($row = $result->fetch_assoc())
    {
        echo "<tr>";
        echo "<td>". $row ["USN"]. "<td>";
        echo "<td>". $row ["name"]. "<td>";
        echo "<td>". $row ["address"]. "</td></tr>";
        array_push ($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 ($result->num_rows > 0) {
    while ($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";
        echo "</th></tr>";

        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></tr>";
        }
    }
}

```

```

echo "<Table> ";
$conn->close();
?>
</body> .
</html> .

```

Output:

BEFORE sorting .

OSN	name	Address
4SUI7CS019	Niranjan	Bengaluru
4SUI7CS008	Darshan	Mysuru
4SUI7CS004	Anusha	Ujire
4SUI7CS018	Vandana	Belthangady

After sorting

OSN	Name	Address
4SUI7CS004	Anusha	Ujire
4SUI7CS008	Darshan	Mysuru
4SUI7CS018	Vandana	Belthangady
4SUI7CS019	Niranjan	Bengaluru