

WEB TECHNOLOGY LABORATORY
WITH MINI PROJECT

LAB PROGRAMS

USN: 45017CS014

Name: Chinmayi B.

Sub.Code: 17CSL77

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Signature: Chinmayi B.

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

• Program:

```
<!DOCTYPE html>
<html>
<head><title> Web labprogram 1</title>
<style>
    .title {
        border-radius: 9px;
        margin-bottom: 10px;
        text-align: center;
        width: 400px;
        color: black;
        background-color: pink;
        border: solid black 1px;
    }
    table {
        border: 4px solid black;
        background-color: whitesmoke;
        width: 300px;
        height: 200px;
        margin: auto;
    }
    input [type = "text"] {
        border-radius: 5px;
        background-color: white;
        text-align: right;
        width: 95%;
    }
    input [type = "button"] {
        border-radius: 5px;
        background-color: #f56deb;
        color: black;
        border-color: #ff8503;
        width: 75%;
    }
</style>
<script>
    function disp(val) {
        document.getElementById('sdm').value += val;
    }
</script>
```

```

function clr(){
    document.getElementById('sdm').value = " ";
}
function solve(){
    let x=document.getElementById('sdm').value;
    let y=eval(x);
    document.getElementById('sdm').value=y;
}
</script>
</head>
<body>
    <center><div class="title"> SDM -- Javascript lab program
    </div></center>

    <table border="1" align="center">
        <tr> <td> <input type="button". value="CE" onclick="clr()"
        </td>
        <td colspan="3"> <input type="text" id="sdm"></td>
        </tr>
        <tr><td><input type="button" value="+" onclick="disp('+)"></td>
        <td><input type="button" value="1" onclick="disp('1)"></td>
        <td><input type="button" value="2" onclick="disp('2)"></td>
        <td><input type="button" value="3" onclick="disp('3)"></td>
        </tr>
        <tr> <td><input type="button" value="-" onclick="disp('-)"></td>
        <td><input type="button" value="4" onclick="disp('4)"></td>
        <td><input type="button" value="5" onclick="disp('5)"></td>
        <td><input type="button" value="6" onclick="disp('6)"></td>
        </tr>
        <tr><td><input type="button" value="*" onclick="disp('*)"></td>
        <td><input type="button" value="7" onclick="disp('7)"></td>
        <td><input type="button" value="8" onclick="disp('8)"></td>
        <td><input type="button" value="9" onclick="disp('9)"></td>
        </tr>
        <tr><td><input type="button" value="/" onclick="disp('/')"></td>
        <td><input type="button" value="." onclick="disp('.')"></td>
        <td><input type="button" value="0" onclick="disp('0)"></td>
        <td><input type="button" value="=" onclick="disp('=)"></td>
        </tr>
    </table>
</body>
</html>

```

Output:

SDM -- Javascript Lab program

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

2. Write a Javascript that calculates the square 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"> Numbers from 0 to 10 with  
their Squares and Cubes </h1>');
```

```
document.write ('<center><table width= "40%" border= "5"  
bgcolor = "white">');
```

```
document.write ("<tr><th> Number </th><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 & Cubes.

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

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.

= Program

```
<!DOCTYPE html>
<html>
<head><title>Labprogram3 -- TEXT PROGRAM</title>
</head>
<body>
  <div style = "margin-top : 200px;" align = "center">
    <p></p>
  </div>
  <script>
    var text = document.querySelector('p')
    var font = 5;
    var flag = 0;
    function inc() {
      font++;
      text.style.fontSize = font + "pt";
      text.style.color = "red";
      text.textContent = "TEXT-GROWING:" + font + "pt";
      if (font == 50) {
        flag = 1;
      }
    }
    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) {
        inc();
      }
    }, 100);
  </script>
</body>
</html>
```

Output :

TEXT- GROWING : 46 pt

TEXT- SHRINKING : 30pt

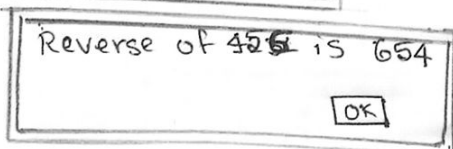
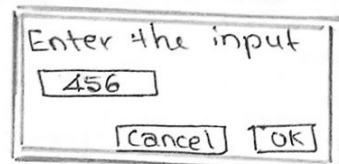
4. Develop and demonstrate a HTML5 file that includes JavaScript that uses function for the following problems:

- a) Parameter: A string
- b) Output: The position in the string of the left most vowel
- c) Parameter: A number
- d) Output: The number with its digits in the 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 chr = str.charAt(i);
        if (chr == 'A' || chr == 'E' || chr == 'I' || chr == 'O' || chr == 'U')
          break;
      }
      if (i < str.length)
        alert("The position of leftmost vowel is " + (i + 1));
      else
        alert("No vowel found in the entered string");
    }
  </script>
</body>
</html>
```

Output:



Enter the input

Ujire

Cancel OK

The position of the left most
vowel is 1

OK

- 5 Design an XML document to store Information about a student in an engineering college affiliated to VTU. The information ment include USN, Name, and Name of the college, Branch, year of joining & email id. Make up sample data for 3 students create a css style sheet & use it to display the document.

Program

Labprogram5.xml

```
<?xml-stylesheet type="text/css" href="LabProgram5.css"?>
<"DOCTYPE html>
<html>
<head>
    <h1>Students description</h1>
</head>
<students>
    <student>
        <USN> USN: 45U17CS001</USN>
        <name> NAME: Anu </name>
        <college> COLLEGE: SDMIT </college>
        <branch> BRANCH: Computer Science and Engineering </branch>
        <year> YEAR: 2017 </year>
        <email> Email: anu@gmail.com</email>
    </student> <student>
        <USN> USN: 45U17CS002</USN>
        <name> NAME: Bhavya </name>
        <college> COLLEGE: SDMIT </college>
        <branch> BRANCH: Computer Science and Engineering </branch>
        <year> YEAR: 2017 </year>
        <email> bhavya@gmail.com </email>
    </student>
    <student>
        <USN> USN: 45U17CS003</USN>
        <name> NAME: Chinmayi </name>
        <college> COLLEGE: SDMIT </college>
        <branch> BRANCH: Computer Science and Engineering </branch>
        <year> YEAR: 2017 </year>
        <email> chinmayi@gmail.com </email>
    </student>
</students>
</html>
```

LabProgram5.css

```
student {
    display: block; margin-top: 10px; color: Navy;
}
USN {
    display: block; margin-left: 10px; font-size: 14px; color: Red;
```



```

}
name{
    display: block; margin-left: 20px; font-size: 12px; color: Maroon;
}
college{
    display: block; margin-left: 20px; font-size: 12px; color: blue;
}
branch{
    display: block; margin-left: 20px; font-size: 12px; color: purple;
}
year{
    display: block; margin-left: 20px; font-size: 14px; color: green;
}
email{
    display: block; margin-left: 20px; font-size: 12px; color: blue;
}
}

```

Output:

Student description

USN: 4SU17CS001

NAME: Anu

COLLEGE: SDMIT

BRANCH: Computer Science and Engineering

YEAR: 2017

EMAIL: anu@gmail.com.

USN: 4SU17CS002

NAME: Bhavya

COLLEGE: SDMIT

BRANCH: Computer Science and Engineering

YEAR: 2017

EMAIL: bhavya@gmail.com

USN: 4SU17CS003

NAME: Chinmayi

COLLEGE: SDMIT

BRANCH: Computer Science and Engineering

YEAR: 2017

EMAIL: chinmayi@gmail.com.

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 program heading.

= Program:

```
<?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");
    $printf($file, "%d", $hits[0]);
    fclose($file);
    print ("Total number of views: ".$hits[0];
?>
```

Output:

```
*      REFRESH Page
      Total number of views: 10
```

7. write php program to display a digital clock which displays the current time of the server.

Program:

```
<!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.

Goto MySQL and then type

create database weblab;

use weblab

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

LabProgram10.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>";
```

```
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["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;
    }
    $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] = $row["addr"];
                }
            }
        }
    }
    echo "<br>";
    echo "<center> AFTER SORTING </center>";
    echo "<table border='2'>";
    echo "<tr>";
    echo "<th> USN </th><th> NAME </th><th> ADDRESS </th></tr>";
    for ($i=0; $i<$n; $i++) {
        echo "<tr>";
        echo "<td>". $a[$i]. "</td>";
        echo "<td>". $c[$i]. "</td>";
        echo "<td>". $d[$i]. "</td></tr>";
    }
    echo "</table>";
    $conn->close();
}
?>
</body>
</html>

```

Output :

BEFORE SORTING

USN	NAME	ADDRESS
45U17CS019	Niranjana	Bengaluru
45U17CS008	Darshan	Mysore
45U17CS004	Anusha	Ujire
45U17CS028	Vandana	Belthangady

AFTER SORTING

USN	NAME	ADDRESS
4SU17CS004	Anusha	Ujire
4SU17CS008	Darshan	Mysore
4SU17CS019	Niranjana	Bengaluru
4SU17CS028	Vandana	Belthangady