

Web technology laboratory with mini project

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LAB OBSERVATION

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

→ <!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" type="text" value="" 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>

```
<td> <input type="button" value="4" onclick="calculator.display.value += '4'"></td>
<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>

<td>

```
<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>

<td>

```
<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>
```

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

<tr>

<td>

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

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

<td>

</table>

</form>

</body>

</center>

</html>

Output:-

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

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

```
<html>
<head>
<script>
document.write(<h1 align = "right"> Squares and Cubes of the no.
from 0 to 10 </h1>);
document.write('<center><table width = "30%" border = "1" bgcolor =
"white">');
document.write('<tr><th>Number </th><th>Square </th><th>
Cube </th></tr>');
for (var n=0; n<=10; n++)
{
document.write("<br><td>" + n + "</td><td>" + n * n + "</td><td>" +
n * n * n + "</td></tr>");
}
document.write("</table>");

</script>
</head>
<html>
```

Output:-

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

4)

Develop and demonstrate a Javascript script that includes a HTML5 file that includes functions for the following problems
a) position in the string of the left-most vowel
b) number with its digits in the reverse order

```
<!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 (char == 'A' || char == 'E' || char == 'I' || char == 'O' || char == 'U')
            break;
    }
    if (i < str.length)
        alert("The position of the leftmost vowel is"
              + (i + 1));
    else
        alert("No vowel found in the entered string");
}
</script>
</body>
</html>

```

Output :-

Enter the input

Reverse of 123456 is 654321

prevent this page from creating additional dialogs

Enter the input

The position of the left most vowel is 3

prevent this page from creating additional dialogs

Program3: write a Javascript codes that displays text "Text-Growing" with increasing font size in the interval of 100ms in RED colour. When the font size reaches 50pt it displays "Text-Shrinking" in BLUE colour. Then the font size decreases to 5pt

```
<!DOCTYPE html>
<html>
<body>
<p id="my P1">TEXT-GROWING </p>
<p id="my P2">TEXT SHRINKING </p>
</body>
<script>
var size = 10;
var i = 0;
var myWait = setInterval(GrowText1, 100);
uncertainGrowText1();
{
    if (size < 51)
    {
        size = size + 1;
        document.getElementById("my P1").style.fontSize = (size + "pt");
        document.getElementById("my P1").style.color = "red";
    }
    else
    {
        size = size - 1;
        document.getElementById("my P1").style.fontSize = (size + "pt");
        document.getElementById("my P1").style.color = "blue";
    }
}
function GrowText1()
{
    if (size <= 50)
    {
        clearInterval(myWait);
        size = 5;
        document.getElementById("my P1").style.fontSize = (size + "pt");
        document.getElementById("my P1").style.color = "blue";
    }
}
function uncertainGrowText1()
{
    var random = Math.floor(Math.random() * 100);
    if (random % 2 == 0)
        GrowText1();
    else
        ShrinkText1();
}
```

```
ClearInterval(myWait1);
myWait1 = SetInterval(ShrinkText1(100));
document.getElementById("myP1").style.visibility = "hidden";
document.getElementById("myP1").style.fontSize = "10px";
document.getElementById("myP2").style.visibility = "visible";
```

```
function ShrinkText1()
```

```
{  
    if (size > 5)  
    {
```

```
        size = size - 1;
```

```
        document.getElementById("myP2").style.fontSize = (size + 1) + "px";
```

Output:-

TEXT GROWING

TEXT SHRINKING

Program 5:- Design an XML document to store information about a student in an engineering College affiliated to VTU. The information must include USN, NAME & name of the college, branch, year of joining & Email-id. Make up same data for 3 students. Create a CSS style sheet and use it to display the document.

Program 5. XML

```
<?xml-stylesheet = "text/css" href = "S.css"?>
<!DOCTYPE html>
<html>
  <head>
    <h1> STUDENT DESCRIPTION </h1>
  <students>
    <student>
      <usn> USN : 4SU17CS001 </usn>
      <name> Name : SANTOSH </name>
      <college> <college : SDM IT </college>
      <branch> Branch : Computer Science & Engineering </branch>
      <email> E-Mail : Santosh@gmail.com </email>
    </student>
    <student>
      <usn> USN : ASU17CS002 </usn>
      <name> Name : SUMANTH </name>
    </student>
  </students>
</html>
```

{college} College : SDM IT {college}
{branch} Branch : Computer Science & Engineering {branch}
{year} Year : 2017 {year}

{email} E-mail : Sumanth@gmail.com {e-mail}
{student}

{student}

{usn} USN : 4SU17CS003 {usn}

{name} Name : VANI {name}

{college} College : SDM IT {college}

{branch} Branch : Computer Science & Engineering {branch}

{year} Year : 2017 {year}

{email} E-mail : Vani@gmail.com {e-mail}

{student}

{student}

{html}

Program S.css

Student {

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

}

USN {

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: 12pt; color: Maroon; }

branch {

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

Name: US VIITCS001

College : SDM IT

Branch: Computer Science & Engineering

Year: 2017

E-mail: Santhos@gmail.com

USN: 4S07FC002

Name: SUMANTH

College: SDM IT

Branch: Computer Science & Engineering

Year: 2017

E-Mail: SUMANTH@gmail.com

USN: 4S07FC003

NAME: VANI

College: SDM IT

Branch: Computer Science & Engineering

Year: 2017

Email: Vani@gmail.com

Program 6:- write a PHP program to keep track of the number of visitors visiting the webpage & to display this count of visitors with proper headings

program 6.php

<?php

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

Output:

```
REFRESH PAGE  
Total number of views : 10
```

Program 7: Write a PHP program named States.php that declares a variable States with value "Mississippi Alabama Texas Massachusetts Kansas". write a PHP program that does the following

- a) Search for a word in Variable States that ends in as
Store this word in element 0 of a list named States List
- b) Search for a word in States that begins with k & ends in s. Perform a case insensitive comparison. Store this word in element 1 of States List
- c) Search for word in States that begins with M & ends in s. Store this word in element 2 of the list
- d) Search for a word in States that ends in a.
Store this word in element 3 of the list.

Program 7.php

<?php

\$states = "Mississippi Alabama Texas Massachusetts Kansas";

\$statesArray = [];

\$states1 = explode(" ", \$states);

echo "original Array:
";

foreach (\$states1 as \$i => \$value)

print("STATE [" . \$i . "] => \$value
");

```
foreach ($states as $state) {
```

```
    if (preg_match ('/xast 1', ($state)))
```

```
        $statesArray[0] = ($state);
```

```
}
```

```
foreach ($states as $state) {
```

```
    if (preg_match ('/n M. *S 1', ($state)))
```

```
        $statesArray[1] = ($state);
```

```
}
```

```
foreach ($states as $state) {
```

```
    if (preg_match ('/... ast', ($state)))
```

```
        $statesArray[2] = ($state);
```

```
}
```

```
echo "<br><br>Resultant Array: <br>";
```

```
foreach ($statesArray as $array => $value)
```

```
    print ("STATES [$array] = $value<br>");
```

```
?>
```

Output:-

Original Array :-

STATES[0] = Mississippi

STATES[1] = Alabama

STATES[2] = Texas

STATES[3] = Massachusetts

STATES[4] = Kansas

Resultant Array:

STATES[0] = Texas

STATES[1] = Kansas

STATES[2] = Massachusetts

STATES[3] = Alabama

Program 8 :-

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 new lab:

Create table student (roll varchar(10), name varchar(20),
address varchar(20));

programs.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 "
";

echo "<center> BEFORE SORTING </center>";

echo "<table border=2>";

echo "<tr>";

```
echo "<th>USN </th> <th> NAME </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; $i++) {  
$b[$i]= $a[$n-$i-1];  
}
```

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] = \$pos;

\$pos = \$temp;

y
y

\$c = [];

\$d = [];

\$result = \$conn->query(\$sql);

if (\$result->num_rows > 0)

(20)

```
{  
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>";
$cnn->close();
?>
{<body>
{<html>}

```

Output :-

BEFORE SORTING

| USN | NAME | ADDRESS |
|------------|-----------|-------------|
| 4SU17CS019 | Niranjini | Bengaluru |
| 4SU17CS008 | Darshan | Mysore |
| 4SU17CS004 | Anusha | Vijire |
| 4SU17CS042 | Vandana | Beltangady. |

AFTER SORTING

| USN | NAME | ADDRESS |
|------------|-----------|-------------|
| 4SU17CS004 | Anusha | Vijire |
| 4SU17CS008 | Darshan | Mysore |
| 4SU17CS019 | Niranjini | Bengalore |
| 4SU17CS042 | Latha | Belthangady |

