

Web Technology Laboratory With Menu Project
17CSL77

① Program 1

Javascript: simple calculator.

```
<!DOCTYPE html>
<html>
<head>
<title>Lab Calculator program </title>
<style>
    .title {
        position : relative;
        top : 25px;
        border-radius : 10px;
        margin-bottom : 50px;
        text-align : center;
        width : 400px;
        color : #ff4444;
        border : dashed green 2px;
    }
    input [type = "text"] {
        border-radius : 10px;
        text-align : right;
        border-color : black;
        background-color : white;
        width : 95%;
    }
    input [type = "button"] {
        border-radius : 5px;
        background-color : darkseagreen;
        color : black;
        border-color : darkgraygreen;
        width : 100%;
    }
</style>
```

②
<script>

function disp(val) {

document.getElementById('sdm').value += val;

}

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>

<div class="title">SDM </div>

<table border="1">

<tr>

<td>

<input type="button" value="C" 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 = "solve()" />

</td>

</tr>

</center>

</body>

</html>

OUTPUT :

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

Test Cases

Test No	Input parameter.	Expected Output	Obtained Output	Remarks
1.	value1 = 50.56 value2 = 24.39	Addition = 74.95 Subtract = 26.17 Multiply = 1233.1584 Divide = 2.0729807298	Addition = 74.95 Subtract = 26.17 Multiply = 1233.1584 Divide = 2.0729807298	Pass
2.	value1 = 0 value2 = 45	Addition = 45 Subtract = -45 Multiply = 0 Divide = 0	Addition = 45 Subtract = -45 Multiply = 0 Divide = 0	Pass
3.	value1 = abc value2 = 123	Enter a valid number	Enter a valid number	Pass

② Program 2

⑤

Write a javascript that calculates the square and cube of the number from 0 to 10 and outputs html text and displays the resulting value in HTML table format.

```
<html>
```

```
<head>
```

```
<script>
```

```
document.write('<h1 align="right"> square and cubes of the  
numbers from 0 to 10 </h1>');
```

```
document.write('<center> <table width="300" 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("<tr><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

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.

program3.html

```

<!DOCTYPE html>
<html>
<body>
<p id="myP1">TEXT-GROWING</p>
<p id="myP2">TEXT-SHRINKING</p></body>
<script>
// Global declarations
var size = 10;
var i = 0;
var myWait1 = setInterval(GrowText1, 100);
function GrowText1()
{
    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 first paragraph and display the second paragraph.
        document.getElementById("myP1").style.visibility = "hidden";
        document.getElementById("myP1").style.fontSize = "1pt";
        document.getElementById("myP2").style.visibility = "visible";
    }
}
}

```


function shrinkText1()

(
if (size > 5)
{
size = size - 1;
document.getElementById("myP2").style.fontSize = (size + 'pt');
document.getElementById("myP2").style.color = "blue";
}
}

</script>

</body>

</html>

output

TEXT-GROWING

TEXT SHRINKING

④ Develop and demonstrate a HTML 5 file that includes JavaScript 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.

program7.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 == 'I' || chr == 'O' || chr == 'U')
```

```
            break;
```

```
}
```


if (i < str.length)

(9)

alert("The position of the leftmost vowel is" + (i+1));

else

alert("No vowel found in the entered string");

}

</script>

<body>

</html>

output

①

program

Enter the input:

programk.html says:

Reverse of 123456 is 654321

②

Enter the input:

programk.html says:

The position of the leftmost vowel is 3

Test cases

Test No	Input Parameters	Expected Output	obtained Output	Remarks
0	123	Reverse of 123 is 321	Reverse of 123 is 321	PASS
1	CHANNASANDRA	The position of the left most vowel is 3	The position of the left most vowel is 3	PASS
2	SKY	No vowel found in the entered string	No vowel found in the entered string	PASS
3	MNKFO	The position of the left most vowel is 5	The position of the left most 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 and 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.

program5.html

```
<?xml-stylesheet type="text/css" href="s.css"?>
```

```
<!DOCTYPE HTML>
```

```
<html>
```

```
<head>
```

```
<h1 STUDENTS DESCRIPTION </h1>
```

```
</head>
```

```
<student>
```

```
<student>
```

```
<USN> USN : HSU17CS001 </USN>
```

```
<name> NAME : SANTOSH </name>
```

```
<college> COLLEGE : SDMZT </college>
```

```
<branch> BRANCH : Computer Science and Engineering </branch>
```

```
<year> YEAR : 2017 </year>
```

```
<e-mail> E-Mail : santosh@gmail.com </e-mail>
```

```
</student>
```

```
<student>
```

```
<USN> USN : HSU17CS002 </USN>
```

```
<name> NAME : MANORANJAN </name>
```

```
<college> COLLEGE : SDMZT </college>
```

```
<branch> BRANCH : Computer Science and Engineering </branch>
```

```
<year> YEAR : 2017 </year>
```

```
<e-mail> E-Mail : manoranjan@gmail.com </e-mail>
```

```
</student>
```

```
<student>
```

```
<USN> USN: HSU17CS003 </USN>
```

```
<name> NAME : CHETAN </name>
```

```
<college> COLLEGE : SDMZT </college>
```

<branch> BRANCH: Computer science and Engineering </branch>

(12)

<year> YEAR: 2017 </year>

<email> E-Mail: chethan@gmail.com </e-mail>

</student>

</students>

</html>

program 5, css

student {

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

}

bsiv {

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: 12pt; color: Green;

}

email {

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

}

STUDENT DESCRIPTION

USN: HSU17CS001

NAME: SANTOSH

COLLEGE: SDMIT

BRANCH: Computer Science & Engineering

YEAR: 2017

E-Mail: santosh@gmail.com

USN: HSU17CS002

NAME: MANORANJAN

COLLEGE: SDMIT

BRANCH: Computer Science and Engineering.

YEAR: 2017

E-Mail: manpranjan@gmail.com

USN: HSU17CS003

NAME: CHETHAN

COLLEGE: SDMIT

BRANCH: Computer Science and Engineering

YEAR: 2017

E-Mail: chethan@gmail.com

6. Write a PHP program to keep track of number of visitors visiting the web page. and to display this count of visitors, with proper headings. (14)

program.php

```
<?php
```

```
print "<h3> REFRESH PAGE </h3>";
```

```
$name = "counter.txt";
```

```
$file = fopen($name, "r");
```

```
$hits = fscan($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 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

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

Go to MySQL and then type

```
create database weblab;
```

```
use weblab;
```

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

program10.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 = 0;
```

create connection

Open a new connection to the MySQL server.

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

Ucheck connection and return and error description from the
last connection error, if any.

```
if ($conn → connect_error)
```

```
die("Connection failed; ". $conn → connect_error);
```

```
$sql = "SELECT * FROM student";
```

U 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)
```

```
{
```

U Output data of each row and fetches a result row as an

U 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 = $l + 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 ($result->num_rows > 0) // output data of each row
{
    while ($row = $result->fetch_assoc()) {
        for ($i = 0; $i < $o; $i++) {
            if ($row["usrn"] == $a[$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 ($r = 0; $r < $n; $r++) {
```

```
    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
USU17CS019	Niranjini	Bengaluru
USU17CS008	Darshan	Mysuru
USU17CS004	Anurha.	Ujire
USU17CS042	Vandana.	Belthangady

AFTER SORTING.

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