

Lab Program - 1

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

program1.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" type="text" value="0" 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> <input type="button" value="3" onclick="calculator.display.value+=3">  
<td> <input type="button" value="+" onclick="calculator.display.value+=+'"> </td>  
<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>  
</td>  
<td> <input type="button" value="/" onclick="calculator.display.value+='/'"> </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>
```

```
<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>

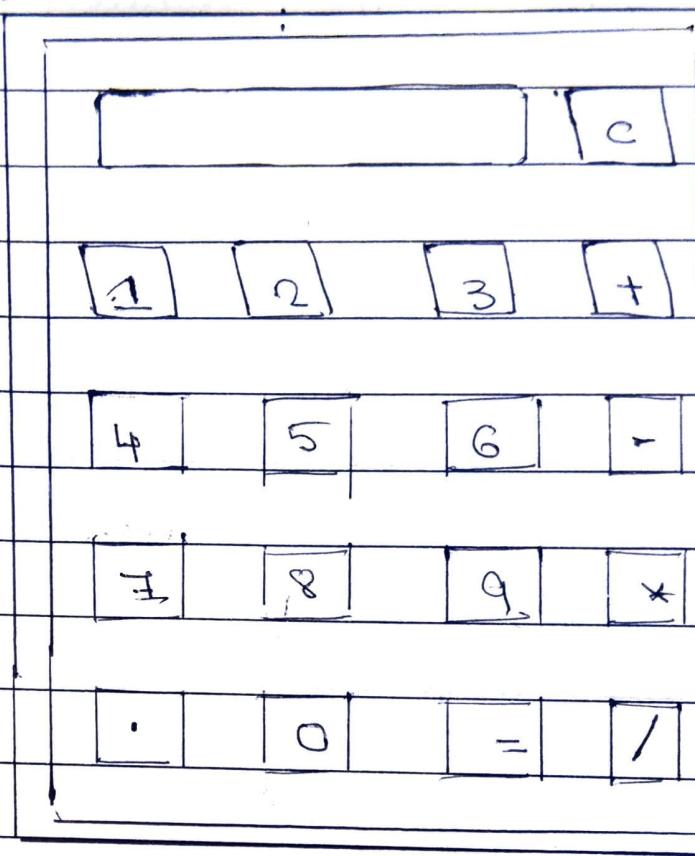
</form>

</body>

</center>

</html>

Output :-



Test cases:-

Test no.	Input Parameter	Expected Output	Obtain Output	Result
1	value1 = 50.56 value2 = 24.39	Addition = 74.95 Subtraction = 26.17 Multiplication = 1233.1584 Division = 2.072980729 = 298.	Addition = 74.95 Subtraction = 26.17 Multiplication = 1233.1584 Division = 2.072980729 = 298.	PASS
2	value1 = abc value2 = 23	ENTER VAR10 NUMBER	ENTER VAR10 NUMBER	PASS

Lab Program - 2

program2.html

- Q) 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.

<html>

<head>

<script>

document.write('<h2 align="right"> Squares
and Cubes of the numbers from 0 to 10</h2>');

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++)
<

<tr> <td> +n+ </td>
<td> +n*n+ </td> <td> +n*n*n+ </td> </tr>);

3

document.write ("<table>");

< / script >

< / head >

< / html >

Output:-

NUMBERS FROM 0 TO 10 WITH THEIR
SQUARES AND 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 |

Lab Program - 3.

program3.html

34 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>
```

```
<body>
```

```
<p id = "myP1"> TEXT-GROWING </p>
```

```
<p id = "myP2"> TEXT SHRINKING </p></body>
```

```
<script>
```

```
// global declarations
```

```
var size = 10;
```

```
var i = 10;
```

```
var myInterval = setInterval(growText, 100);
```

unction generate1()

{

if (size < 5)

{

size = size + 1;

document.getElementById("myP1").

style.fontSize = (size + pt);

document.getElementById("myP1").style.color = id;

// Hide the paragraph "text-shifting"

document.getElementById("myP2").style.visibility = "hidden";

}

else

{

clearInterval(myWait);

myWait1 = setInterval(displayText1, 100);

// Now hide the 1st 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 (wige > 5)

{

wige = wige - 1;

document.getElementById("myP").style.

font-size: wige + 'pt');

Output:-

TEXT - GROWING

TEXT SHRINKING

Lab Program - 4

program4.html

- 4c Develop and demonstrate a HTML5 file that includes JavaScript script that uses functions 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

program4.html

```
<!DOCTYPE HTML>
```

```
<html>
```

```
<body>
```

```
<script type = "text/javascript">
```

```
var str = prompt("Enter the Input", "");
```

if (!isNum(ite))

{

val num, rev=0, remainder;

num = parseInt(ite);

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++) {

val ch = str.charAt(i);

if (ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == '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");

y

</script>

<body>

<html>

Output:

Enter the street

123456

cancel

OK

Reverse of 123456 is 654321

Prevent the page from creating
additional dialogs

OK

Enter the Input

chennasandra.

cancel

OK

The position of the left most vowel is 3

prevent this page from creating additional dialogs

OK

"Test cases":-

Test no	Input Parameters	Expected output	Obtained Output	Remark
1	123	Reverse of 123 is 321	Reverse of 123 is 321	PASS
2.	CHANNASANDRA	The position of the left most vowel is 3	The position of the left most vowel is 3	PASS
3.	sky	No vowel found in the entered string	No vowel found in the entered string	PASS

Lab - Program - 5.

5k. 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> STUDENTS DESCRIPTION </h1>
    </head>
    <student>
```

<student>

<usn> USN : 4SUITCS003 </usn>

<name> NAME : MEGHA </name>

<college> COLLEGE : SOMIT - </college>

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

<year> YEAR : 2010 </year>

<email> E-MAIL : megha@gmail.com </email>

<student>

<student>

<usn> USN : 4SUITCS002 </usn>

<name> NAME : AISHWARYA </name>

<college> COLLEGE : SOMIT </college>

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

<year> YEAR : 2011 </year>

<email> E-MAIL : aishwarya@gmail.com </email>

<student>

<student>

<student>

<usn> USN : 4SUITCS005 </usn>

<name> NAME : KIRAN </name>

<college> COLLEGE : SOMIT </college>

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

<year> YEAR : 2017 </year>

<email> E-mail : kiran@gmail.com </email>

</student>

</students>

</html>

Program 5.css

student {

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

User {

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:

Output :-

STUDENT DESCRIPTION.

USN : 48V17CS043

NAME : MEGHA

COLLEGE : SAVIT

BRANCH : Computer science and Engineering

YEAR : 2017

E-mail : megha@gmail.com

USN : 48V17CS002

NAME : RAISHWARYA

COLLEGE : SAVIT

BRANCH : Computer science and engineering

YEAR : 2017

E-mail : raishwarya@gmail.com

USN : 48V17CS005

NAME : KIRAN

COLLEGE : SAVIT

BRANCH : Computer science and engineering

YEAR : 2017

E-mail : kiran@gmail.com

Lab program-6

Q4 Write a PHP program to keep track of the number of visitors viewing the web page and to display this count of visitors, with proper headings.

program6.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");  
fprint($file, "%d", $hits[0]);  
fclose ($file);
```

```
print "Total number of viewers: " . $hits[0];
```

?>

Output:-

REFRESH PAGE

Total number of views: 10.

Lab program - I

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

program1.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") ; ?></p>
</head>

Output:

12 : 55 : 09 PM.

Lab Program -10.

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

Go to MySQL and then type
create database neelab;
use neelab;

create table student (en 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;

border-collapse: collapse;

background-color: lightblue;

}

table { margin: auto; }

</style>

<?php

\$username = "localhost";

\$username = "root";

\$password = "root";

\$dbname = "weblab";

\$a = [];

// create connection

// opens a new connection to the MySQL

\$conn = mysqli_connect(\$username,

\$username, \$password, \$dbname);

// check connection and return an error
description from the last connection, else

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>". $row["address"]. "</td></tr>";
        array_push($a, $row["usn"]);
    }
}

```

```
echo "Table is Empty";
echo "</tables>";
$n = count($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) // output data of
{
    each row
```

```

while ($row = $result->fetch_assoc()) {
    for ($i = 0; $i < $n; $i++) {
        if ($row["id"] == $a[$i]) {
            $c[$i] = $row["name"];
            $d[$i] = $row["addr"];
        }
    }
}

echo "<hr>";
echo "<center>AFTER SORTING</center>";
echo "<table border='1'>";
echo "<tr>";
echo "<th>User</th><th>Name</th><th>Address</th><th>";
echo "<th>Address</th><th></th><th>";
for ($i = 0; $i < $n; $i++) {
    echo "<tr>";
    echo "<td>$a[$i]</td>";
    echo "<td>$c[$i]</td>";
    echo "<td>$d[$i]</td></td></td>";
    echo "<td>$d[$i]</td></td></td></tr>";
}
echo "</table>";
$conn->close();
?>
</body>
</html>

```

Output :-

BEFORE SORTING

| USN | NAME | Address |
|------------|--------------------|-----------|
| 4SUITCS043 | Naveen
Mukundan | Silvassa |
| 4SUITCS042 | Mahanishan | Bengaluru |
| 4SUITCS046 | Kiran | Bangalore |
| 4SUITCS127 | Satyam | Durgapur |

AFTER SORTING

| USN | NAME | Address |
|------------|---------|-----------|
| 4SUITCS042 | Dikshaa | Bengaluru |
| 4SUITCS046 | Vishan | Bangalore |
| 4SUITCS043 | Nalash | Bangalore |
| 4SUITCS127 | Satyam | Durgapur |