

i] Write a Javascript to design a simple calculator to perform the following Operations : Sum, product , different and quotient.

```

<!DOCTYPE >
<html>
<link rel="stylesheet" href="sty.css"/>
<head>
<center>
<body>
<form name="calculator">
<table colspan="3">
<tr><td colspan="4"><input name="display" type="text" value="0" onfocus="this.value=''" onblur="this.value=0" style="width:100%; height:30px; border:none; outline:none; font-size:24px; font-weight:bold; border-bottom:1px solid black;" /></td></tr>
<tr>
<td><input type="button" value="1" onclick="calculator.display.value += '1'" />
<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><input type="button" value="4" onclick="calculator.display.value += '4'" />
<td><input type="button" value="5" onclick="calculator.display.value += '5'" />
<td><input type="button" value="6" onclick="calculator.display.value += '6'" />
<td><input type="button" value="7" onclick="calculator.display.value += '7'" />
<td><input type="button" value="8" onclick="calculator.display.value += '8'" />
<td><input type="button" value="9" onclick="calculator.display.value += '9'" />
<td><input type="button" value="0" onclick="calculator.display.value += '0'" />
<td><input type="button" value="." onclick="calculator.display.value += '.'" />
<td><input type="button" value="-" onclick="calculator.display.value += '-'" />
<td><input type="button" value="/" onclick="calculator.display.value += '/'" />
<td><input type="button" value="*" onclick="calculator.display.value += '*'" />
<td><input type="button" value="%" onclick="calculator.display.value += '%'" />
<td><input type="button" value="C" onclick="calculator.display.value = ''" />
<td><input type="button" value="." onclick="calculator.display.value += '.'" />
<td><input type="button" value="=" onclick="calculator.display.value = eval(calculator.display.value)" />
</td></tr>
</table>
</form>

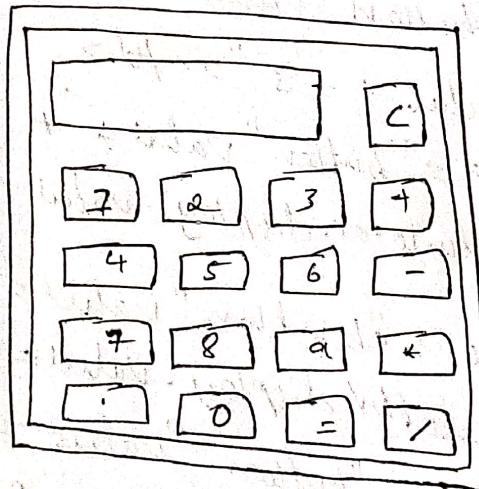
```

```

<tr>
<td><input type = "button" value = "9" onclick="calculator.display.value = "9"></td>
<td><input type = "button" value = "*" onclick="calculator.display.value += '*'></td>
<td>
<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 += '/.'"></td>
</tr>
<table>
<form>
<body>
<center>
</html>

```

## Output



### Test cases

| Test No                              | Expected O/P                                                                                 | Obtain O/P                                                       |
|--------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 1 Value 1 = 50.56<br>Value 2 = 24.39 | Addition = 74.95<br>Subtraction = 26.17<br>Multiplication = 1233.1584<br>Division = 2.072980 | Add = 74.95<br>Sub = 26.17<br>Mul = 1293.<br>Division = 2.072980 |
| 2) val1 = abc<br>a = 23              | Enter valid<br>No                                                                            | Enter valid<br>No                                                |

## Lab program-2

- Q. write a JS that calculate the squares & cubes of the no from 0 to 10 and output HTML text that displays the resulting in an HTML table format.

<HTML>

<head>

<script>

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

document.write ('<center><table width = "30%">

    <tr><th> No </th><th> Square </th><th> Cube </th></tr>');

document.write ('<tr><td> 0 </td><td> 0 </td><td> 0 </td></tr>');

    <td> 1 </td><td> 1 </td><td> 1 </td></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>

O/P

NUMBERS FROM 0 TO 10 WITH THEIR  
SQUARES AND CUBES

NUMBERS

SQUARES

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 JS code that displays first "TEXT-GROWING" with increasing font size in the interval of 100ms in RED COLOR where the font size reaches 50pt and displays "TEXT-SHRINKING" in BLUE color then the font size decreases to 5pt

```
<!DOCTYPE html>
<html>
<body>
<p id="my P1">TEXT-GROWING</p>
<p id="my P2"><TEXTSHRINKING</p></body>
<script>
// Global declarations.
var size = 10;
var = 10;
var myWait = setInterval (growFont, 100);
function growFont () {
    if (size < 51) {
        size = size + 1;
        document.getElementById ("my P1").style.fontSize =
            (size + 'pt');
        document.getElementById ("my P1").style.color =
            "red";
    }
}
function shrinkFont () {
    if (size > 5) {
        size = size - 1;
        document.getElementById ("my P2").style.fontSize =
            (size + 'pt');
        document.getElementById ("my P2").style.color =
            "blue";
    }
}
setInterval (shrinkFont, 100);
// now hide the
document.getElementById ("my P1").style
    .visibility = "hidden";
```

```
document.getElementById("myP1").style.  
    fontSize = "1pt";  
document.getElementById("myP2").style.visibility  
= "visible";  
}  
function shrinkFont()  
{  
    if (saye > 5)  
    {  
        saye = saye - 1;  
        document.getElementById("myP1").style.fontSize =  
        (saye + "pt");  
    }  
}
```

O/P

TEXT-GROWING

TEXT SHRINKING

## Lab program 4

Develop and demonstrate a HTML 5 file that includes JS 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

```
<!DOCTYPE HTML>
<html>
<body>
<script type="text/JS">
var str = prompt("Enter the input", "1");
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);
}
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 left-most vowel is
          "+(i+1));
else
    alert('No vowel found in the entered string');
```

```
<script>  
</body>  
</html>
```

O/P

Enter the input

cancel      OK

Reversing 123456 is 654321

Prevent this page from creating additional dialogs

Enter the input

cancel      OK

The position of the leftmost vowel  
is 3

Prevent this...

### Test cases:

Test

No

1 SKY

No vowel found in the No vowel found in the pair  
entitled string      entitle string

1 MNKFD

the positions of the left the position of the left pair  
most vowel is 5      most vowel is 5

2

## Lab programs

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 & mail id. Make up sample data for 3.

Student . Create a CSS style sheet & use it to display the

<?xml -stylesheet type = "text/css" href = "5.css"?>

<!DOCTYPE html>

<html>

<head>

<h1> Student Description </h1>

</head>

<student>

<USN> USN : 45U17CS052 </USN>

<name> NAME : NISHANTH B. S </name>

<college> COLLEGE : SDM IT </college>

<branch> BRANCH : Computer Science & Engineering <bran

<year> YEAR : 2017 </year>

<email> E-mail : Nishanthbangerala02@gmail.com. </email>

</student>

<student>

<USN> USN : 48U17CS089 </USN>

<name> NAME : Brijesh </name>

<college> COLLEGE : SDM IT </college>

<branch> BRANCH : CSE </branch>

<year> YEAR : 2017 </year>

<email> EMAIL : brijesh420@gmail.com. </email>

</student>

<student>

<USN> USN : 45U17CS049 </USN>

<name> NAME : NIRUPAM </name>

<college> COLLEGE : SDM IT </college>

<branch> BRANCH : CSE </branch>

<year> YEAR : 2017 </year>

<email> EMAIL : Nirupamhead@gmail.com </email>

</student>

</html>

Program 5.4

student {

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

}

UIN {

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

}

Name {

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

Maroon;

}

branch {

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

}

year {

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

color: Blue;

}

Output :

### STUDENT DESCRIPTION

UIN: 48017CS059

NAME: Nishanth B.S

College: SDM IT

Branch: Computer Science & Engineering

Year: 2017

Email : Nishanth.banger10@gmail.com

UIN: 48017CS059

Name: Brijeech

College: SDM IT

Branch: CS

Year: 2017

Email : Brijeech40@gmail.com.

UIN: 48017CS049

Name: Nipun

College: SDM IT

Branch: CSE

Year: 2017

Email : Nipun.hegde@gmail.com.

6. Write a PHP program to keep track to the no of visitors visiting the web page and to display this count of visitors with proper headings.

→ ?php

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

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

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

```
$hits = fread($file, 1000);
```

```
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 no of views 10.

Q) write a PHP program to display a digital clock which displays the current time of the server.

```
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="refresh" content="1" />
    <style>
        p {
            color: white;
            font-size: 30px;
            position: absolute;
            top: 50%;
            left: 50%;
            transform: translate(-50%, -50%);
        }
        body {
            background-color: black;
        }
    </style>
    <p><?php echo date("h:i:sA"); ?></p>
</head>
</html>
```

### Output

10 : 44 : 08 AM

10) Write a PHP program to sort the student records <sup>which</sup> are stored in the database using Selection sort.

Go to MySQL and then type.

```
create database weblab;  
use weblab;  
create table student (roll varchar(10), name varchar(10),  
address varchar(10));  
  
<!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, $pass  
$dbname);  
if ($conn->connect_error)  
die ("Connection failed: " . $conn->connect_error);  
$sql = "SELECT * from student";
```

```
fruits = $conn->query("SELECT * FROM fruits");
echo "<table border='1'>";
echo "<tr><th>Name </th><th>Address </th><th>City</th><th>State</th></tr>";
echo "<tr><td>John Doe</td><td>123 Main St</td><td>Anytown USA</td><td>CA</td></tr>";
echo "<tr><td>Jane Doe</td><td>456 Elm St</td><td>Anytown USA</td><td>CA</td></tr>";
echo "<tr><td>Bob Smith</td><td>789 Oak St</td><td>Anytown USA</td><td>CA</td></tr>";
echo "<tr><td>Alice Johnson</td><td>234 Pine St</td><td>Anytown USA</td><td>CA</td></tr>";
```

if (\$result->num\_rows>0)

{

```
    while($row = $result->fetch_assoc()) {
```

```
        echo "<tr>";
```

echo "<td>". \$row["name"] . "</td>";

echo "<td>". \$row["city"] . "</td>";

echo "<td>". \$row["state"] . "</td>";

```
        array_push($a, $row["name"]);
```

}

}

```
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;
```

error:

```

$C = [];
$c = [];

$result = $conn -> query($sq1);
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>

```

## BEFORE SORTING

| DSN         | NAME       | Address    |
|-------------|------------|------------|
| 45017CS042  | Nishant    | Mangalore  |
| 45012CS059  | P. Brijesh | Mumbai     |
| 45017CS049  | Nipun      | Bangalore  |
| 45017CS0100 | Sudha      | Mangalore. |

## AFTER SORTING

| DSN        | NAME       | Address    |
|------------|------------|------------|
| 45017CS049 | Nipun      | Bangalore  |
| 45017CS052 | Nishant    | Mangalore  |
| 45012CS059 | P. Brijesh | Mumbai     |
| 45012CS100 | Sudha      | Mangalore. |