

1. Write a JavaScript to design a simple calculator to perform the following operations sum, product, difference and quotient

```
<!DOCTYPE html>
```

```
<html>
```

```
<head><title>web lab 8</title>
```

```
<style>
```

```
body {
```

```
text-align: center;
```

```
}
```

```
.title {
```

```
border-radius: 45px;
```

```
margin-bottom: 30px;
```

```
text-align: center;
```

```
padding: 14px 13px;
```

```
width: 100px;
```

```
background-color: red;
```

```
border: solid black 2px;
```

```
}
```

```
input [type="text"] {
```

```
border-radius: 10px;
```

```
text-align: right;
```

```
background-color: white;
```

```
width: 94px;
```

```
}
```

```
input [type="button"] {
```

```
border-radius: 20px;
```

```
background-color: green;
```

```
color: white;
```

```
border-color: white;
```

```
width: auto;
```

```
}
```

.tit {

border-radius: 45px;

margin-bottom: 30px;

text-align: center;

width: 150px;

color: red;

background: solid black 3px;

}

</style>

<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 JavaScript Lab program </div>

<center>

<table border="0">

<tr>

<td>

<input type="button" value="CE" onclick="clr()">

</td>

<td colspan="4">

<input type="text" id="SDM">

</td>

</tr>

<tr>

<td>

<input type="button" value="4" onclick="disp('4')">

</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>

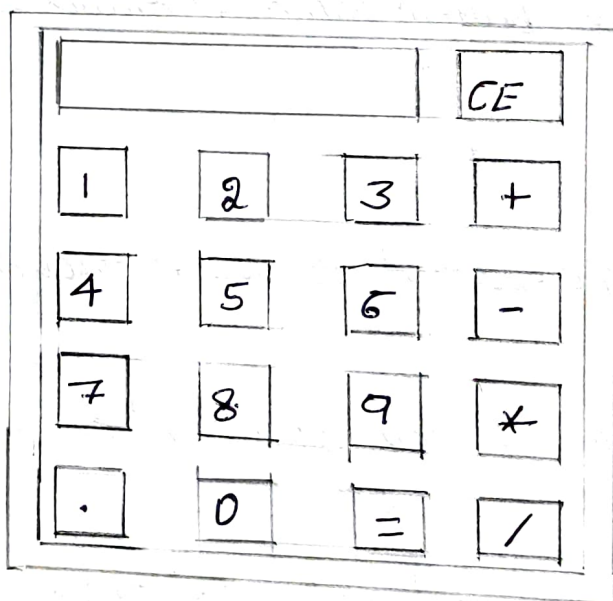
</table>

</center>

</body>

</html>

Output:



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.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<script>
```

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

```
document.write("<center><table width='30%' border='1'  
bgColor='white'>");
```

```
document.write("<tr><th> Numbers </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 square & cube

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

12/10/2022



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 50pt.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> JS 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: " + Pont + "pt";

if (Pont == 5) {

Play = 0;

}

}

var time = setInterval (Function() {

if (Play == 1) {

dec ();

}

if (Play == 0) {

inc ();

}

}, 1000);

</script>

</body>

</html>

Output:

TEXT-GROWING

TEXT-SHRINKING



4. Develop and Demonstrate a HTML5 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.

```
<!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;
```

```
}
```

(A)

```
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>
```

Output:

Enter the Input  
123456  
cancel ok

Reverse of 123456 is 654321  
☒ Prevent this 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

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, Branch, Year of joining and email-id. Make up sample data for 3 students. Create style sheet & use it to display the document.

Program5.xml

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

```
<!DOCTYPE Html>
```

```
<html>
```

```
<head>
```

```
<h1>STUDENT DESCRIPTION </h1>
```

```
</head>
```

```
<students>
```

```
<student>
```

```
<USN>USN : 45U17C5001</USN>
```

```
<name>NAME : SANTHOSH</name>
```

```
<College>COLLEGE : SDMIT</College>
```

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

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

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

```
</student>
```

```
<student>
```

```
<USN>USN : 45U17C5002</USN>
```

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

```
<College>COLLEGE : SDMIT</College>
```

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

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

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

```
</student>
```

```
<student>
```

```
<USN>USN : 45U17C5003</USN>
```

```
<name>NAME : CHETHAN</name>
```

```
<College>COLLEGE : SDMIT</College>
```

<branch> BRANCH : Computer Science & Engineering 4/branch

<Year> YEAR : 2017 </year>

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

</student>

</students>

</html>

### Program 5. 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: 45U17C5001

NAME: SANTHOSH

COLLEGE: SDMIT

BRANCH: Computer Science & Engineering

YEAR: 2017

E-Mail: santhosh@gmail.com

USN: 45U17C5002

NAME: MANORAJAN

COLLEGE: SDMIT

BRANCH: Computer Science & Engineering

YEAR: 2017

E-Mail: manorajan@gmail.com

USN: 45U17C5003

NAME: CHETHAN

COLLEGE: SDMIT

BRANCH: Computer Science & Engineering

YEAR: 2017

E-Mail: chethan@gmail.com

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

Program6.php

```
<?php
```

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

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

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

```
$hits = fscanf($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 PHP Program to display a digital clock which displays the current time to 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>
```

```
</html>
```

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 (idn 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";
```

```
$conn =
```

```
// Create Connection
```

```
// Open a new connection to the MySQL Server
```

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

```
// Check connection and return an error description from the  
last connection error, 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 "<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;
```

```
    }
```

```
    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["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
45U17C5019	Niranjini	Bengaluru
45U17C5008	Darshan	Mysuru
45U17C5004	Anusha	Vijaya
45U17C5002	Vandana	Bellthangady

### AFTER SORTING

USN	NAME	Address
45U17C5004	Anusha	Vijaya
45U17C5008	Darshan	Mysuru
45U17C5019	Niranjini	Bengaluru
45U17C5002	Vandana	Bellthangady