

Q write a JavaScript to design a simple calculator to perform following operations: Sum, product, PROGRAM 1A: diff, quotient.

NAME : AKSHAYA-K-M

USN : 43017CS005

(1)

```
<!DOCTYPE html>
```

```
<html>
```

```
<head><title class="Lab Program 1"></title>
```

```
<h5 class="center">Name: AKSHAYA-K-M </h5>
```

```
<h5 class="center">USN : 43017CS005 </h5>
```

```
<style>
```

```
• table {
```

```
border-radius : 15px ;
```

```
margin-bottom : 15px ;
```

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

```
width : 250px ;
```

```
color : royal blue ;
```

```
background-color : #ansik ;
```

```
border : solid #syrbrown 2px ;
```

```
}
```

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

```
border-radius : 15px ;
```

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

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

```
width : 95% ;
```

```
}
```

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

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

```
background-color : gray ;
```

```
border-color : black ;
```

```
color : whitesmoke ;
```

```
width : auto ;
```

```
}
```


<!-- creating buttons and assign values to it -->

(3)

<table>

<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>

</table>

<table>

<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>

</table>

<table>

<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>

</table>

<td><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>

</td>

</table>

</body>

</html>

Output

Name: AKSHAYA-K-M

USN: 4SU17CS005

SDM -- Javascript lab program

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

Write a JavaScript to design that calculates the squares and cubes of the numbers from 0 to 10 and output HTML text that display the resulting values in an HTML table format.

```

<!DOCTYPE html>
<html>
<head>
<script>
document.write('<h1 align="right"> Squares 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 and cubes

Number	Square	Cube
0	0	0
1	1	1
2	4	8
3	29	27
4	164	64
5	25	125
6	36	216
7	49	343
8	64	512
9	81	729
10	100	1000

PROGRAM-3

JavaScript : T

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. 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>
```

```
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";
```

```
}
```

```
else
```

```
{
```

```
clearInterval(mywait1);
```

```
mywait1 = setInterval(shrinkText1, 100);
```

```

document.getElementById("myP1").style.visibility =
    "hidden";
document.getElementById("myP1").style.fontSize = '100px';
document.getElementById("myP2").style.visibility = 'visible';

```

```

}

```

```

}

```

```

function shrinkText()

```

```

{

```

```

    if (size > 5)

```

```

    {

```

```

        size = size - 1;

```

```

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

```

```

    }

```

```

}

```

Output:

TEXT-GROWING

TEXT SHRINKING

PROGRAM-4

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 it's 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 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");
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```

Output :

Enter the input

1 2 3 4 5 6

cancelOK

Reverse of 1 2 3 4 5 6 is 6 5 4 3 2 1

☐ Prevent this page from creating additional dialogs

OK

Enter the input

channasandra

cancelOK

The position of left most vowel is 3

☐ Prevent this page from creating additional dialogs

OK

Test No.	Input Parameters	Expected Output	Obtained Output	Remarks
1.	123	Reverse of 123 is 321	Reverse of 123 is 321	PASS
2.	CHANNASANDRA	The position of left most vowel is 3	The position of left most vowel is 3	PASS
3.	SKY	No vowel found in the entered string	No vowel found in the entered string	PASS
4.	MNKT0	The position of left most vowel is 5	The position of left most vowel is 5	PASS

5)

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 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.

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

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
</head>
```

```
<students>
```

```
<student>
```

```
<usn> USN : 45017CS001 </usn>
```

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

```
<college> COLLEGE : SDMIT </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 : 45017CS002 </usn>
```

```
<name> NAME : MANIORANJAN </name>
```

<college> COLLEGE : SDMIT </college>

<branch> BRANCH : Computer Science and Engineering

<year> YEAR : 2017 </year>

</branch>

<e-mail> E-mail : manodanjan@gmail.com </e-mail>

</student>

<Student>

<USN> USN : 4SUI7CS003 </USN>

<name> NAME : CHETAN </name>

<college> COLLEGE : SDMIT </college>

<branch> BRANCH : Computer Science and Engineering

</branch>

<year> YEAR : 2017 </year>

<e-mail> E-mail : chetan@gmail.com </e-mail>

</student>

</students>

</html>

Program 3.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: 12pt;

color: maroon;

}

college {

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

color: Blue;

}

branch {

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

color: Green;

}

year {

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

color: Green;

}

e-mail {

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

color: Blue;

}

Output:

STUDENT DESCRIPTION

USN: 4SU17CS001

NAME: SANTHOSH

COLLEGE: SDMIT

BRANCH: Computer Science and Engineering

YEAR: 2017

E-mail: santhosh@gmail.com

USN : 4S017CS002

NAME : MANORANJAN

COLLEGE : SDMIT

BRANCH : Computer Science and Engineering

YEAR : 2017

E-mail : manoranjana@gmail.com

USN : 4S017CS003

NAME : CHETHAN

COLLEGE : SDMIT

BRANCH : Computer Science and Engineering

YEAR : 2017

E-mail : chethan@gmail.com

PROGRAM-6

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

Program6.php

1?php

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

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

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

```
$hits = fscanf($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

PROGRAM-7

7) write a PHP program to display a digital clock

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

PROGRAM-10

- 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 (cush 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>

\$servername = "localhost";

\$username = "root";

\$password = "root";

\$dbname = "weblab"; \$a = [];


```
// create connection
```

```
// open a new connection to the MySQL server
```

```
$conn = mysql_connect($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";
```

```
$result = $conn → query($sql);
```

```
echo "<br>";
```

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

```
echo "<table border = '1'>";
```

```
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>";
```

```
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)

{

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

 for (\$i = 0; \$i < \$n; \$i++) {

```
if ($row["usn"] == $a[$i]) {
```

```
    $c[$i] = $row["name"];
    $d[$i] = $row["address"];
}
```

```
}
```

```
}
```

```
}
```

```
echo "<body>";
```

```
echo "<center>AFTER SORTING </center>";
```

```
echo "<table border = '2' >";
```

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

```
echo "<th>USN </th><th>NAME </th><th>
```

```
Address </th></tr>";
```

```
for($p=0; $p<$n; $p++){
```

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

```
    echo "<td>". $a[$p]. "</td>";
```

```
    echo "<td>". $c[$p]. "</td>";
```

```
    echo "<td>". $d[$p]. "</td></tr>";
```

```
}
```

```
echo "</table>";
```

```
$conn -> close();
```

```
}
```

```
</body>
```

```
</html>
```

Output :

BEFORE SORTING

| USN | NAME | Address |
|------------|-----------|-------------|
| 4SU17CS019 | Niranjini | Bengaluru |
| 4SU17CS008 | Daagham | Mysuru |
| 4SU17CS004 | Anusha | Wifre |
| 4SU17CS042 | Vandana | Belthangady |

AFTER SORTING

| USN | NAME | Address |
|------------|-----------|-------------|
| 4SU17CS004 | Anusha | Wifre |
| 4SU17CS008 | Daagham | Mysore |
| 4SU17CS019 | Niranjini | Bengaluru |
| 4SU17CS042 | Vandana | Belthangady |