

PROGRAM-01

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- 1) Write a javascript to design a simple calculator to perform the following operations; sum, product, difference and quotient.

program 1.html

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

```
        <title> web lab program 1 </title>
```

```
    <Style>
```

```
        body { font-family: sans-serif; background-color:
```

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

```
}
```

```
.title {
```

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

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

```
input { text-align: center; font-size:
```

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

```
width: 1600px; }
```

```
input { color: red; font-size: 14px; background-color:
```

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

```
border: solid black 1.5px; }
```

```
input { width: 100%; height: 40px; font-size: 14px; }
```

```
input { type = "text" } {
```

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

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

```
background-color: gold; }
```

```
width: 94%; }
```

```
}
```

```
input { type = "button" } {
```

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

```
background-color: blue; }
```

131969.3384

```
background-color: white; border: 1px solid black;
```

```
border-color: white; width: auto;
```

```
width: auto; border: none; border-radius: 10px;
```

```
?
```

```
.tit {
```

```
border-radius: 15px; border: 1px solid black;
```

```
margin-bottom: 30px; border: 1px solid black;
```

```
text-align: center; border: 1px solid black;
```

```
width: 150px; border: 1px solid black; border-radius: 15px;
```

```
color: red; border: 1px solid black; border-radius: 15px;
```

```
background-color: pink; border: 1px solid black; border-radius: 15px;
```

```
border: 1px solid black; border-radius: 15px;
```

```
}
```

```
</Style>
```

```
<Script> without alert
```

```
function disp(val){
```

```
document.getElementById('SDM').value += val;
```

```
}
```

```
functionclr(){
```

```
document.getElementById('SDM').value = " ";
```

```
}
```

```
function solve(){
```

```
let x = document.getElementById('SDM').value;
```

```
let y = eval(x);
```

```
document.getElementById('SDM').value = "y";
```

```
}
```

```
</Script>
```

```
</head>
```

```
<body>
```

```
<input type="button" value="1" />
```

```
<input type="button" value="2" />
```

```
<input type="button" value="3" />
```

```
<div class = "title"> SDM JAVASCRIPT LAB PROC RAMS </div>
<center>
<table border = "10">
<tr>
<td> <a href="#" onclick="clr()"> Clear </a>
<input type = "button" value = "CE" onclick = "clr()"/>
<td colspan = "4">
<input type = "text" id = "SDM"/>
</td>
</tr>
<tr>
<td> <input type = "button" value = "+" onclick = "disp('+')"/>
<input type = "button" value = "1" onclick = "disp('1')"/>
<input type = "button" value = "2" onclick = "disp('2')"/>
<input type = "button" value = "3" onclick = "disp('3')"/>
<td> <input type = "button" value = "-" onclick = "disp(' - ')"/>
<input type = "button" value = "4" onclick = "disp('4')"/>
<input type = "button" value = "5" onclick = "disp('5')"/>
<input type = "button" value = "6" onclick = "disp('6')"/>
<td> <input type = "button" value = "7" onclick = "disp('7')"/>
<input type = "button" value = "8" onclick = "disp('8')"/>
<input type = "button" value = "9" onclick = "disp('9')"/>
<td> <input type = "button" value = "0" onclick = "disp('0')"/>
<input type = "button" value = "." onclick = "disp('.')"/>
</td>
</tr>
<tr>
<td colspan = "5" style = "text-align: right; vertical-align: bottom; padding-top: 10px;">
<input type = "button" value = "AC" onclick = "clr()"/>
</td>
</tr>

```

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```
</td>
<td> <input type="button" value="5" onclick="disp('5')"/>
</td>
<td> <input type="button" value="6" onclick="disp('6')"/>
</td>
<tr> <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>
</tr>
```

```

<td> <input type="button" value="1" onclick="disp('1')"/>
<input type="button" value="2" onclick="disp('2')"/>
<input type="button" value="3" onclick="disp('3')"/>
</td>
<td> <input type="button" value="4" onclick="disp('4')"/>
<input type="button" value="5" onclick="disp('5')"/>
<input type="button" value="6" onclick="disp('6')"/>
</td>
<td> <input type="button" value="7" onclick="disp('7')"/>
<input type="button" value="8" onclick="disp('8')"/>
<input type="button" value="9" onclick="disp('9')"/>
</td>
<td> <input type="button" value="0" onclick="disp('0')"/>
<input type="button" value="." onclick="disp('.')"/>
<input type="button" value="CE" onclick="clear()"/>
<input type="button" value="=" onclick="cal()"/>
</td>

```

Output: <td> <input type="text" value="0" style="width: 100px;" /> </td>

<td> <input type="button" value="1" onclick="disp('1')"/>

<td> <input type="button" value="2" onclick="disp('2')"/>

<td> <input type="button" value="3" onclick="disp('3')"/>

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

<td> <input type="button" value="5" onclick="disp('5')"/>

<td> <input type="button" value="6" onclick="disp('6')"/>

<td> <input type="button" value="7" onclick="disp('7')"/>

<td> <input type="button" value="8" onclick="disp('8')"/>

<td> <input type="button" value="9" onclick="disp('9')"/>

<td> <input type="button" value="0" onclick="disp('0')"/>

<td> <input type="button" value="." onclick="disp('.')"/>

<td> <input type="button" value="CE" onclick="clear()"/>

<td> <input type="button" value="=" onclick="cal()"/>

PROGRAM - 09

- 2) 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.

Program 9.html

```
<!DOCTYPE html>
<html>
<head>
<Script>
document.write('<h1 align="right"> Squares and
cubes of the numbers from 0 to 10 </h1>');
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++)
{
    document.write('<tr><td>' + n + '</td><td>' +
    + n * n + '</td><td>' + n * n * n + '</td></tr>');
}
document.write('</table>');
</Script>
</head>
</html>
```

Output: - output the numbers from 0 to 10 with their squares and cubes.

Numbers from 0 To 10 with their SQUARES and CUBES

NUMBER	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

PROGRAM - 03

- 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 20pt.

program 3.html

```
<!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"; initial
text.style.color = "blue"; initial
text.textContent = "TEXT-SHRINKING;" + font + "pt";
if (font == 5) { initial A function()
    flag = 0; initial value of flag is true
    } initial A statement()
}

var time = setInterval(function() {
    if (flag == 1) { initial if condition
        dec(); initial function()
    }
    if (flag == 0) { initial if condition
        inc(); initial function()
    }
}, 100);
</script> initial tag
</body> initial tag
</html> initial tag

```

Output:- (After 10 sec)

TEXT-GROWING

TEXT-SHRINKING

```

font = 10px; initial value of font
font = 15px; initial value of font
font = 20px; initial value of font
font = 25px; initial value of font
font = 30px; initial value of font
font = 35px; initial value of font
font = 40px; initial value of font
font = 45px; initial value of font
font = 50px; initial value of font
font = 55px; initial value of font
font = 60px; initial value of font
font = 65px; initial value of font
font = 70px; initial value of font
font = 75px; initial value of font
font = 80px; initial value of font
font = 85px; initial value of font
font = 90px; initial value of font
font = 95px; initial value of font
font = 100px; initial value of font

```

Font size increases from 10px to 100px

Font size decreases from 100px to 10px

Font size increases from 10px to 100px

Font size decreases from 100px to 10px

Font size increases from 10px to 100px

PROGRAM-04

- 4) Develop and demonstrate a HTML 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.

Note :- (is NaN function return true if the argument is not a no.).

```
program 4.html
<!DOCTYPE html>
<html>
  <body>
    <Script type="text/javascript">
      var Str = prompt ("Enter the Input", " ");
      if (! (is NaN (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 all letters are
// vowel, then stop a for loop
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
<input type="button" value="Cancel"/>	<input type="button" value="OK"/>

Keyboard

Reverse of 123456 is 654321
<input type="button" value="OK"/>

Output:-

Enter the input	chennai and or
<input type="button" value="Cancel"/>	<input type="button" value="OK"/>

The position of the left most vowel is 3

<input type="button" value="OK"/>

PROGRAM - 05

- 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.

Program: S.xml

```
<?xml-stylesheet type="text/css" href =  
"S.css"?>  
<!DOCTYPE HTML>  
<html>  
<head>  
<h1> STUDENTS DESCRIPTION </h1>  
</head>  
<Students>  
<Student>  
<USN> USN : HSU17CS001 </USN>  
<name> NAME : AMULYA </name>  
<college> COLLEGE : SDMITS </college>  
<branch> BRANCH : computer science & engineering  
</branch>  
<year> YEAR : 2017 </year>  
<email> Email : amulya@gmail.com </email>  
</Student>  
  
<Student>  
<USN> USN : HSU17CS002 </USN>  
<name> NAME : BINDU </name>  
<college> COLLEGE : SDMITS </college>  
<branch> BRANCH : computer science & engineering </branch>
```

```

<year>YEAR : 2017 </year>
<email>Email : bindu@gmail.com </email>
</Student>
<Student>
<USN>usn : HSU17CS003 </USN>
<name>NAME : CHINMAY </name>
<college>COLLEGE : SDMIT </college>
<branch>BRANCH : computer science & engineering </branch>
<year>YEAR : 2017 </year>
<email>Email : chinmay@gmail.com </email>
</Student>
</Students>
</html>

```

Program S.css
Student {

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

USN {

```
display: block; margin-left: 10px; font-size: 11pt; 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: 11pt; color: Orange;
```

12pt; color: purple;

year &

display: block; margin-left: 20px; font-size: 11pt;
color: green;

E-mail &

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

Output:-

STUDENT DESCRIPTION

USN: HSU17CS001

NAME: AMULYA

COLLEGE: SDMIT

BRANCH: computer science and engineering

YEAR: 2017

E-mail: amulya@gmail.com

USN: HSU17CS002

NAME: BINDU

COLLEGE: SDMIT

BRANCH: computer science and engineering

YEAR: 2017

E-mail: bindu@gmail.com

USN: HSU17CS003

NAME: CHINMAY

COLLEGE: SDMIT

BRANCH: computer science & engineering

YEAR: 2017

E-mail: chinmay@gmail.com

PROGRAM-06

Page No. _____
Date. / /

- 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.

program 6.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");  
print_f ($file, "%d", $hits [0]);  
fclose ($file);  
print "Total number of views: " . $hits [0];  
?>
```

Output:-

REFRESH PAGE

Total number of views: 10

PROGRAM-07

- E) Write a PHP 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 { font-size: 100px; color: white; }
```

```
    font-size: 90px; color: white; 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

PROGRAM-10

Page No.

Date: / /

- 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 (usn varchar(10), name varchar(20), address varchar(20));
```

Program 10.php :-

```
<!DOCTYPE html>
```

```
<html>
```

```
    <body>
```

```
        <Style> table, td, th { border:
```

```
            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 = [ ];
```

```

// creates connection
// opens a new connection to the MySQL database
$conn = mysqli_connect($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 "<tr>";
        echo "<td>". $row["usn"]. "</td>";
        echo "<td>". $row["name"]. "</td>";
        echo "<td>". $row["addr"]. "</td>";
        array_push($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 ($result->num_rows > 0) // output data of each
    row
while ($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>"; for sorting
echo "<center> AFTER SORTING <center>";
echo "<table border = '1'>";
echo "<tr>";
echo "<th> USN </th> <th> NAME </th> <th>
Address </th> </tr> ";
for ($i = 0 ; $i < $n ; $i++) {
    echo "<tr>"; for printing
    echo "<td>". $a[$i]. "</td> ";
    echo "<td>". $c[$i]. "</td> ";
    echo "<td>". $d[$i]. "</td></tr> ";
}
echo "</table>"; for printing
$c = clone(); for printing
? > for printing
</body>
</html>

```

Output

BEFORE SORTING,

	USN	NAME	ADDRESS
1	H5U17CS019	Niranjini	Bengaluru
2	H5U17CS008	Darshan	Mysuru
3	H5U17CS004	Anusha	Ujire
4	H5U17CS042	Vandana	Bellhangady

AFTER SORTING,

USN	NAME	ADDRESS
HSU17CS004	Anushka	Ujire
HSU17CS008	Darshan	Mysore
HSU17CS019	Niranjini	Bengalore
HSU17CS042	Vandana	Bellthangady