1st Assignment

Web Technology Lab With mini project - 17CSL77

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Program-1

Write a Javascript to design a simple calculator to perform the following operations: sum, product, difference & quotient.

Program1.html

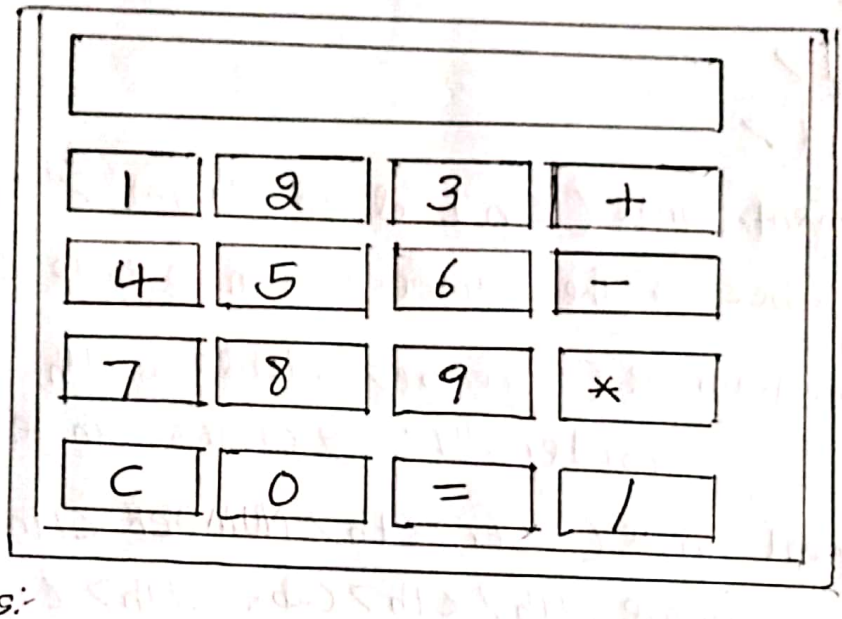
```
<!DOCTYPE>
<html>
<head>
    <link rel = "stylesheet" href = 'sty.css"/>
</head>
<center>
  <body>
    <form name = "calculator">
      <table border = "3">
<tr><td colspan = "4"><input name = 'display"
    id = "display" readonly></td></tr>
<tr>
<td><input type = "button" value = "1" onclick
    = "calculator.display.value += "1"></td>
<td><input type = "button" value = "2" onclick=
    "calculator.display.value += '2' "></td>
<td><input type = "button" value = "3" onclick
    = "calcular.display.value += '3' "></td>
<td><input type = "button" value = "+" onclick
    = "calcular.display.value += '+' "></td>
</tr>
```

```
<td><input type = "button" value = "4" onClick =
"calculator.display.value += '4' "></td>
<td><input type = "button" value = '5' "></td> 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>
</tr>
<tr>
<td><input type = "button" value = "7" onclick =
"calculator.display.value += '7' "></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 = "C" onclick =
"calculator.display.value += 'C' "></td>
<td><input type = "button" value = "0" onclick =
"calculator.display.value += '0' "></td>
<td><input type = "button" value = "=" onclick =
"calculator.display.value += '=' "></td>
<td><input type = "button" value = "/" onclick =
"calculator.display.value += '/' "></td>
</tr>
```

eval(calculator.display.value)

```
</table>
</form>
</body>
</center>
</html>
```

Output:



Test Cases:

Test NO	Input Parameters	Expected output	obtained output	Remarks
1	value1 = 5056 value2 = 2439	Addition = 74.95 Subtraction = 26.17 multiplication = 1233.15 division = 2.0729	Addition = 74.25 subtraction = 26.17 multiplication = 1233.15 division = 2.0729	Pass
2	value1 = 0 value 2 = 45	Addition = 45 subtraction = -45 multiplication = 0 division = 0	Addition = 45 subtraction = -45 multiplication = 0 division = 0	Pass
3	value1 = 45 value 2 = 0	Addition = 45 Subtraction = 45 multiplication = 0 division = infinity	Addition = 45 Subtraction = 45 multiplication = 0 division = infinity	Pass
4	value1 = abc value2 = 23	ENTER VALID NUMBER	ENTER VALID NUMBER	Pass
5	value1 = 56 value2 = xyz	ENTER VALID NUMBER	ENTER VALID NUMBER	Pass

Program - 2

Write a Javascript that circulates the squares & cubes of the numbers from 0 to 10 & outputs HTML text that displays the resulting values in an HTML table format.

→ Program2.html

```
<html>
<head>
<script>
document.write('<h1 align="right"> squares and
    cubes of the numbers from 0 to 10 </h1>');
document.write('<centre> <table width ="30%"
        border="1" bg color = "white">');
document.write("<tr><th> NUMBER </th><th>
    Square </th><th> Cube </th></tr>");
for (var = 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 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

3) Program 3:

Write a JavaScript code that display 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.

Program 3 html

```
<!DOCTYPE html>
<html>
<body>
<p id="myP1">TEXT-GROWING.</p>
<p id="myP2">TEXTSHRINKING</p></body>
<script>
var size=10;
vari=0;
var myWait1=SetInterval(GrowText1,100);
unction GrowText1()
{
if(Size<51)
{
size=size+1;
document.getElementById("myP1").Style.fontSize=(size+"pt")
document.getElementById("myP9").Style.color="red"
}
else
{
clearInterval(myWait1);
myWait1 = set interval(ShrinkText1,100)}
document.getElementById("myP1").Style.visibility="hidden"
document.getElementById("myP1").Style.fontSize=11pt
document.getElementById("myP2").Style.visibility="visible".
```

```
}
}
function shrinkText()
{
if (size >5)
{
size=size-1;
document.getElementById("myP2").style.fontSize=(size+'pt');
}
```

Output

TEXT-GROWING

TEXT SHRINKING

Program-3f

HTML5 & Javascript:

a) Position in the string is the left-most vowel

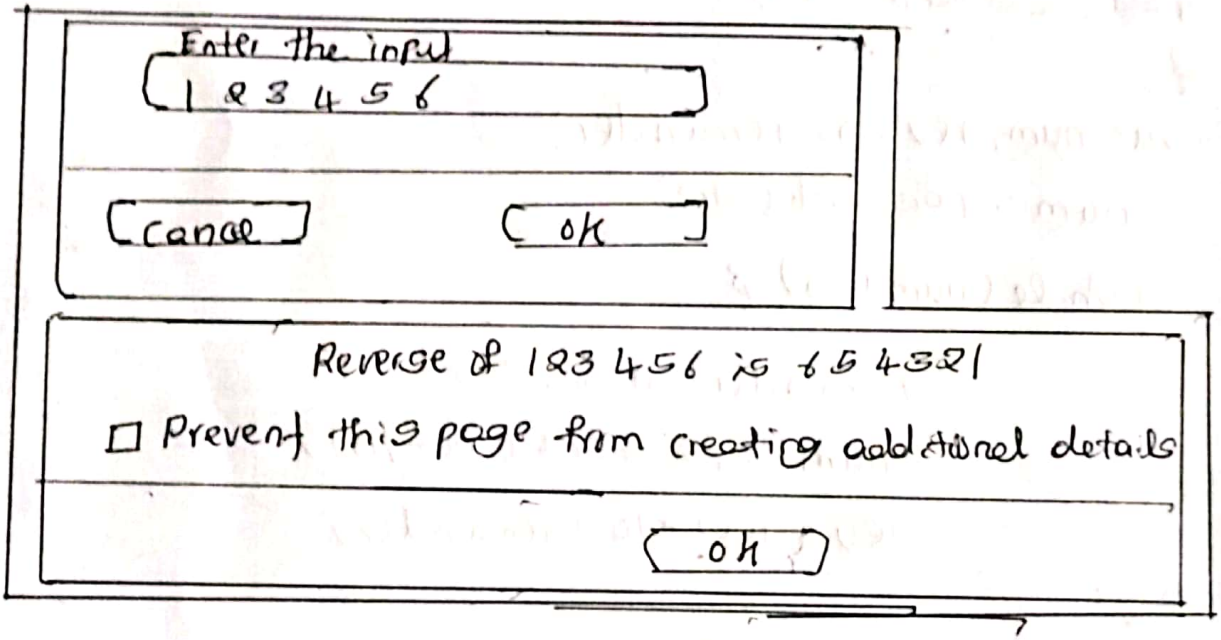
b) number with its digits in the reverse order

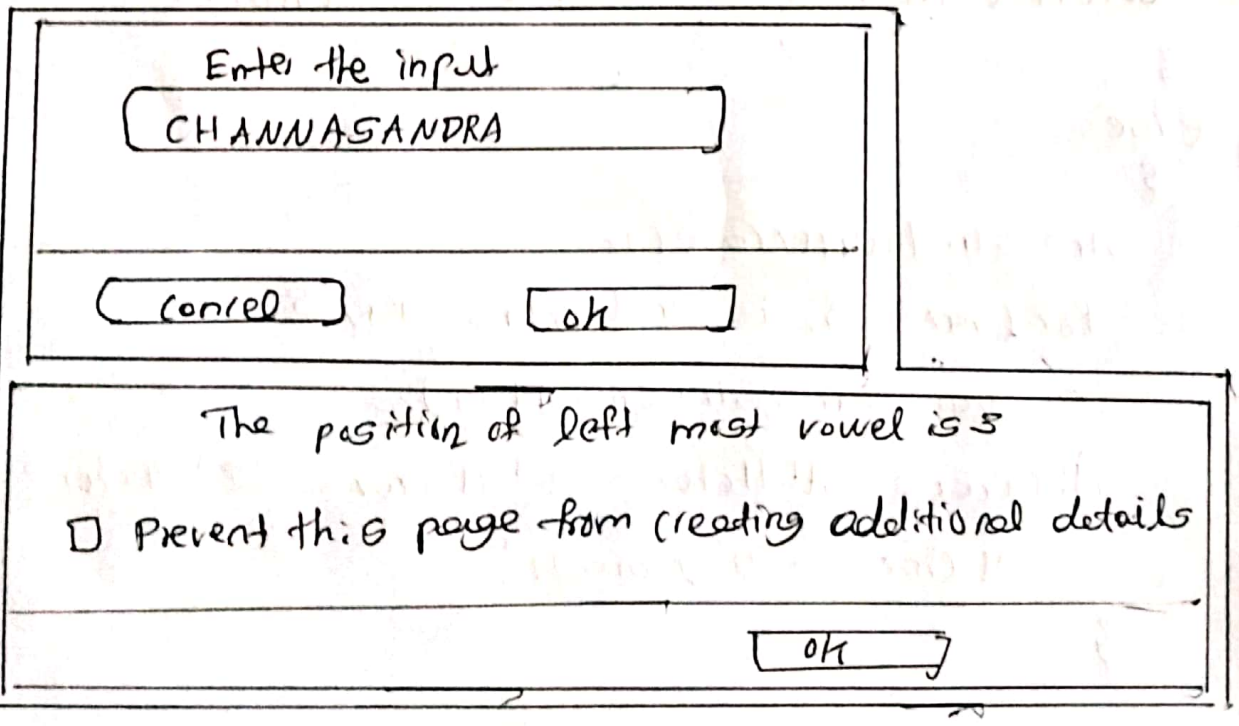
→ Program3.html

```
<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 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 vowels is "+(i+1));
else
 alert("No vowel found in the entered string");
}
</script>
</body>
</html>
```

Output:





Test Cases:-

Test No	Input Parameters	Expected output	obtained output	Remarks
1	123	Reversing 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
4	MNKTO	The position of the left most vowel is 5	The position of the left most vowel is 5	PASS

5 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 & email id. Make up sample data for 3 students. Create a CSS style & use it to display the document.

Program5.html

```
<?xml-stylesheet type="text/css" href="5.css"?>
<!DOCTYPE HTML>
<html>
    <head>
        <h1> STUDENTS DISCRIPTION </h1>
    </head>
    <Students>
        <USN> USN : 4SU17CS001 </USN>
        <name> NAME : SATHISH </name>
        <college> COLLEGE : SDMIT </college>
        <branch> BRANCH: Compute Science and engineering </branch>
        <Year> YEAR : 2017 </Year>
        <e-mail> Email : santhish@gmail.com </e-mail>
    </Student>
    <Student>
        <USN> USN : 4SU17CS002 </USN>
        <name> NAME: MANORANJAN </name>
        <college> COLLEGE : SDMIT </college>
        <branch> BRANCH: Compute Science & engineering </branch>
        <Year> YEAR : 2017 </Year>
        <e-mail> EMAIL : manoranjan@gmail.com </e-mail>
    </Student>
    <Student>
    <USN> USN: 4SU17CS003 </USN>
    <name> NAME : CHETHAN </name>
    <college> COLLEGE: SDMIT </college>
```

```
<branch> BRANCH : Computer Science & Engineering </branch>
<year> YEAR : 2017 </year>
<email> E-mail : Chethan@gmail.com </e-mail>
</student>
</students>
</html>
```

prg19pm5.css

```
student {
    display : block; margin-top : 10px; color : Navy;
    }
USN {
    display : block; margin-left : 10px; font-size : 14 pt;
    color : Red;
    }
name {
    display : block; margin-left : 20px; font-size; 12 pt;
    color : Maroon;
    }
branch {
    display : block; margin-left : 8 px; font-size : 12 pt;
    color : purple;
    }
year {
    display : block; margin-left : 20 px; font-size : 14 pt;
    color = Green;
    }
e-mail {
    display : block; margin-left : 20 px; font-size : 12 pt;
    color = Blue;
    }
```

Output:-

STUDENT DESCRIPTION

USN : 4SU17CS001
NAME : SATHOSH
COLLEGE: SDMIT
BRANCH: Compute Science and Engineering
YEAR : 2017
Email : santhish@gmail.com.

USN : 4SU17CS002
NAME: MANORANJAN
COLLEGE: SDMIT
BRANCH : Compute Science and Engineering
YEAR : 2017
E-mail: manoranjan@gmail.com

USN : 4SU17CS003
NAME: CHETHAN
COLLEGE: SDMIT
BRANCH: Computer Science and Engineering
YEAR : 2117
E-mail: chethan@gmail.com

6 Program-6

Write a PHP program to keep track of the number of visitors visiting the webpage and to display this count of visitors with proper heading

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");
    fprintf ($file, "%d", $hits[0]);
    fclose ($file);

    print "Total number of views: ", $hits[0];
?>
```

output:

REFRESH PAGE

Total number of views :10

7] Program 7

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

Program 7 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>
```

Output

10:44:08 AM

=

8) Program 8

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

Go to mysql and then type

```
Create database weblab;
use wblab;
create table Student (usn varchar(10), name varchar(20),
address varchar(21));
```

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 = [];

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

```
if ($conn -> connect_error)
    die ("connection failed: ". $con -> connect_ error());
$sql = "SELECT * FROM student";
$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)
{
while ($row = $result -> fetch_assoc()) {
    echo "<tr>";
    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 ($result->num_rows > 0)
{
    while ($row = $result->fetch_assoc()) {
        for ($i = 0; $i < $n; $i++) {
            if ($row["usn"] == $a[$i]) {
                $c[$i] = $row["name"];
                $d = $row["addr"];
            }
        }
    }
}
echo "<br>";
echo "<center> AFTER SORTING </center>";
echo "<table border = 12 >";
echo "<tr>";
echo "<th> USN </th> <th> NAME </th> <th> Address </th>";
for ($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
4SU17CS019	Niranjini	Bengaluru
4SU17CS008	Darshan	Mysuru
4SU17CS004	Anusha	Ujire
4SU17CS142	Vandana	Belthangady

AFTER SORTING

USN	NAME	Address
4SU17CS004	Anush	Ujire
4SU17CS008	Darshan	Mysuru
4SU17CS019	Niranjini	Bengaluru
4SU17CS042	Vandana	Belthangady