Smitha · S.M
4SU17CS096
7th sem 'B' sec

Web Technology Laboratory with Mini Project

17CSL77

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

```
<!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.val
+ = '2'></td>
<td><input type = "button" value = "3" onclick = "calculator.display.valu
+ = '3'></td>

<td><input type = "button" value = "+" onclick = "calculator.display.value
'+'></td>
```

```
<tr>
<td><input type="button" value="4" onclick="calculator.display.value+=
'4'"></td>
<td><input type="button" value="5" 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="." 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=
eval(calculator.display.value)"></td>
<td><input type="button" value="/" onclick="calculator.display.value
+='/'"></td>
</tr>
<tr>
<td><input type="button" value="C" onclick="calculator.display.value=''"></td>
```

<td><input type="button" value="/" onclick="calculate.display.value += '/'"></td>

</tr>

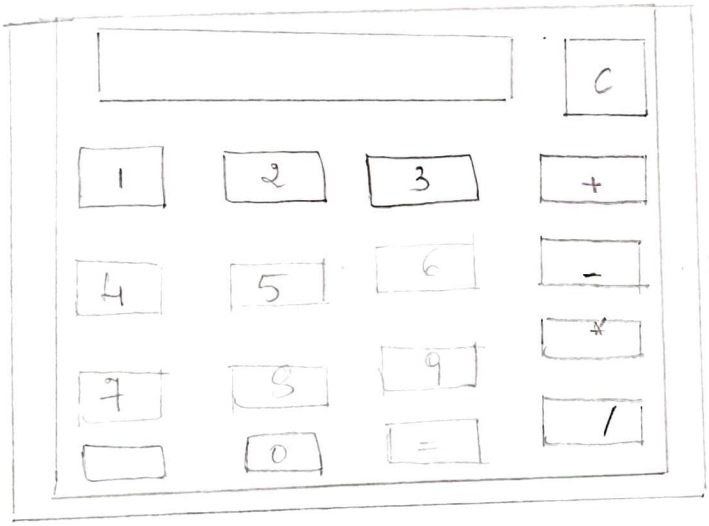
</table>

</form>

</body>

</html>

Output :



Test case :

Test no	Input parameters	Expected output	Obtained output	Remarks
1	Value1 = 50.56 Value2 = 24.39	Addition = 74.95 Substraction = 26.17 Multiplication = 1233.1584 Division = 2.072980728 07	addition = 74.95 Substraction = 26.17 Multiplication = 1233.1584 Division = 2.072980728 07	PASS
2.	Value1 = 0 Value2 = 45	Addition = 45 Substraction = 45 Multiplication = 0 Division = 0	Addition = 45 Substraction = 45 Multiplication = 0 Division = 0	PASS

3.	Value1 = 45 Value2 = 0	Addition = 45 Substraction = 45 Multiplication = 0 Division = infinity	Addition = 45 Substraction = 45 Multiplicaton = 0 Division = infinity	PASS
4.	Value1 = abc Value2 = 23	Enter Valid numbe	Enter valid numbe	PASS
5.	Value1 = 50 Value2 = xyz	Enter Valid numbe	Enter valid numbe	PASS

2. Write a Java Script that calculate 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

```
<html>
<head>
<script>
document.write("<h1 align = "right"> Squares and cubes of the
number 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>");
{
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

8. Write a java Script code that displays text "TEXT - Growing" with the 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 decrease 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 myVar1 = setInterval(GrowText1, 100);
function GrowText1()
{
 if(size < 50)
 {
  size = size + 1;
  document.getElementById("myP1").style.fontSize = (size + pt);
  document.getElementById("myP1").style.color = "red";
 }
 else
 {
 clearInterval(myVar1);
 myVar1 = setInterval(ShrinkText1, 100);
document.getElementById("myP1").style.visibility = "hidden";
document.getElementById("myP1").style.visibility = "hidden";
document.getElementById("myP1").style.fontSize = '1pt';
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

4 Develop and demonstrate a HTML 5 file that include Java Script that uses functions for the following

a) Parameter : A String

b) Output : The position in the string of the left most vowel

c) parameter : A number

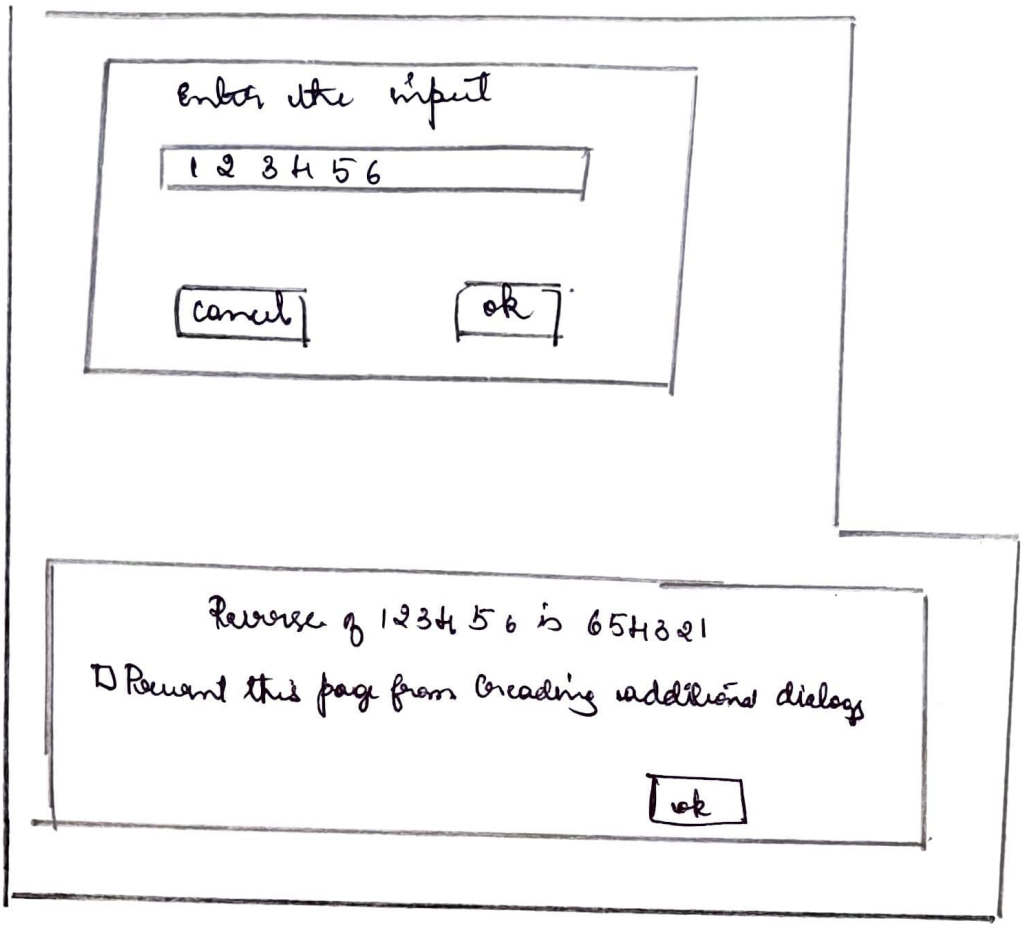
d) Output : The number with its digits in the reverse order

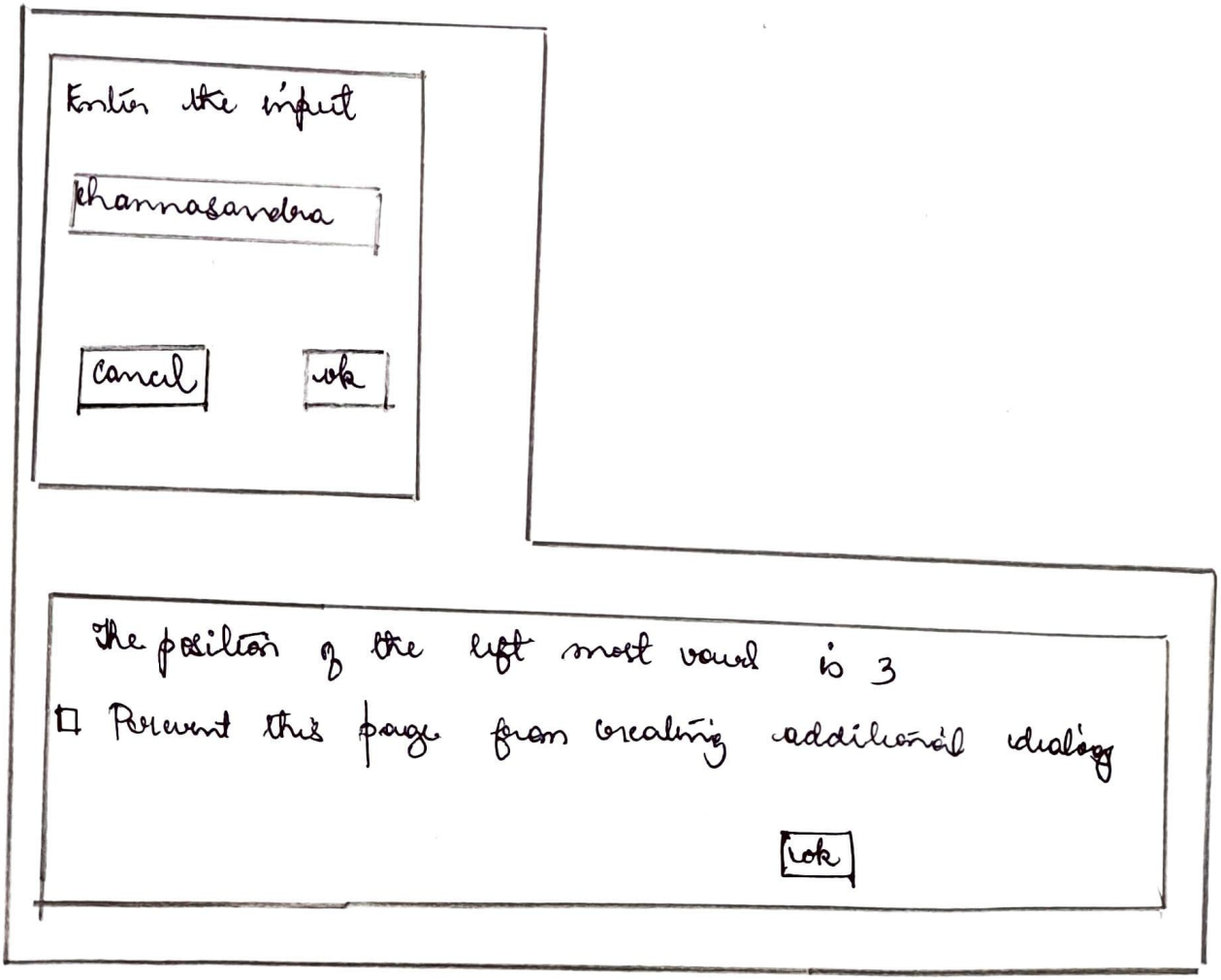
~~Program~~ program 4. html

```
<!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' || ch=='I' || chr=='O' ||
                                    chr=='U') break;
    }
    if (i<str.length)
      alert ("The position of the left most vowel is"
                                    + (i+1));
        else
        alert ("No vowels found in the entered string");
    }
    </script>
    </body>
    </html>
```

Output


Enter the input
1 2 3 4 5 6
cancel
ok
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
khannasandra
cancel
ok
The position of the left most vowel is 3
Prevent this page from creating additional dialogs
ok

Test cases:

Test No	Input parameter	Expected Output	Obtained Output	Remarks
1	1 2 3	reverse of 123 is 3 2 1	reverse of 123 is 3 2 1	PASS
1.	CHANNASANDRA	The position of the left most vowel is 3	the position of the left most vowel is 3	PASS
2	SKY	No of vowel found in the entered string	No of vowel found in the entered string	PASS
3	MNRTO	The position of the left most vowel is 5	the position of the left most vowel is 5	PASS

5. Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must be include USN, Name and Name of the College, Branch, Year of joining and mail id. Make up sample data for 3 students, create a CSS style and use it do display the document.

```
<?xml-stylesheet type = "text/css" href = "5.css"?>
<!DOCTYPE HTML>
<html>
<head>
<h1 STUDENT DESCRIPTION </h1>
</head>
<Students>
```

```
</Students>
</Html>

Student {
  display : block ; margin - top ; 10px ; color : Navy ;
}
USN {
    display : block ; margin - left : 20px ; font - size : 14pt ; Colo : Red ;
}
name {
  display : block ; margin - left : 20px ; fontSize ; 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 ;
}
mail {
  display : block ; margin - left : 20px ; font Size : 12pt ; Colo : Blue ;
}
```

< Student >

< USN > USN : 4SU17CS001 < /USN >

< name > NAME : SANTHOSH < /name >

< college > COLLEGE : SDMIT < /college >

< branch > BRANCH : Computer Science and Engineering < / branch >

< year > YEAR : 2017 < /year >

< mail > E-MAIL : Santosh@gmail < /e-mail >

< / Student >

< Student >

< USN > USN : 4SU17CS002 < /USN >

< name > NAME : MANORANJAN < /name >

< College > COLLEGE : SDMIT < / college >

< branch > BRANCH : computer Science and Engineering < / branch >

< year > YEAR : 2017 < /year >

< e-mail > E-Mail : manoranjan@gmail < /e-mail >

< / Student >

< Student >

< USN > USN : 4SU17CS003 < /USN >

< name > NAME : CHETHAN < /name >

< College > COLLEGE : SDMIT < / college >

< branch > BRANCH : Computer Science and Engineering
< / branch >

< year > YEAR : 2017 < /year >

< e-mail > E-mail : chethan gmail . Com < / e-mail >

< / Student >

Output

Student Description

USN : 4SU17CS001
NAME : SANTHOSH
COLLEGE : SDMIT
BRANCH : Computer Science and Engineering
YEAR : 2017
E-MAIL : Santoth@gmail.com

USN : 4SU17CS002
NAME : MANORAJAN
COLLEGE : SDMIT
BRANCH : Computer Science and Engineering
YEAR : 2017
E-mail : manorajan@gmail.com

USN : 4SU17CS003
NAME : CHETHAN
~~BRANCH~~ :
COLLEGE : SDMIT
BRANCH : Computer Science and Engineering
YEAR : 2019
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 this count of visitors with proper heading

```
<?php
    print "<h3> REFRESH PAGE </h3>";
    $name = "counter.txt";
    $file = fopen ($name, "r");
    $hits = fscan ($file, "%d");
    $ fclose ($file);

    $hits [0]++;
    $ file = fopen ($name, "w");
    fprintf($file, "%d", $hits [0]);
    fclose ($file);

    print "Total number of viewer : " $hits [0];

?>
```

Output

REFRESH PAGE

Total number of viewer : 10

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

```
<!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

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), addrs
                                                    varchar (20));
```

```
<! DOCTYPE html>
 <html>
  <body>
  <style >
  table , td , th
{
  border : 1px solid black;
  width : 33%.
  text - align : center ;
 border - collapse : collapse;
}
table {margin : auto; }

</ style>
<? php
      $servername = "local host";
      $username = " root";
      $password = "root"
      $ dbname = "web lab";
       $ a = [];
```

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

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 = 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);
{
    while ($row = $result->fetch_assoc()) {
        for ($i = 0; $i < $n; $i++) {
            if ($row['num'] = $a[$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
4SU17CS019	Niranjini	Bengaluru
4SU17CS008	Darshan	Mysuru
4SU17CS004	Anusha	Ujire
4SU17CS042	Vandana	Belthangady

AFTER SORTING.

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