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Subject Code : 17CSL77
Subject Name : Web Technology Laboratory with Mini Project.

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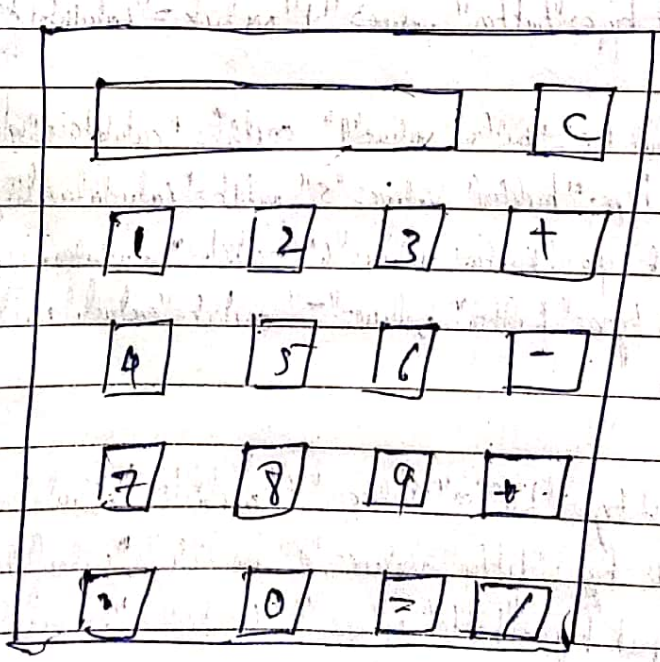
11. Write a JavaScript to design a simple calculator to perform the following operations. sum, product, difference and quotient.

⇒ 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 = "calculator.display.value += '3'"</td>
<td> Input type = "button" value = "+" onclick = "calculator.display.value += '+'"></td>
</tr>
<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="calculator.display.value+="%""
></td>
</tr>
</table>
</form>
</body>
</center>
</html>
```

output:



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Test cases.

Test No.	Input parameter	Expected output	Obtained o/p	Remarks
1.	value1 = 50.06 value2 = 24.89	Addition = 74.95 Subtraction = 26.17 Multiplication = 1245.994 Division = 2.0112	same	Pass
2.	value1 = 0 value2 = 45	Addition = 45 subtraction = -45 Multiplication = 0 Division = 0	same	Pass
3	value1 = 45 value2 = 0	Addition = 45 Subtraction = 45 multiplication = 0 Division = Infinity	same	Pass
4.	value1 = abc value2 = 23	Enter Valid Number	Enter valid Number	Pass
5	value1 = 50 value2 = xyz	Enter Valid Number	Enter Valid Number	Pass

2. Write a JavaScript that calculates the squares and cubes of the number from 0 to 10 and 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 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>");
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>
```

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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. Write a Javascript code that displays text "TEXT-GROWING" with increasing font size for the interval 100ms in RGB colour, when the font size reaches 50pt. It displays "TEXT-SHRINKING" in BLUE color. Then the font size decreases to 5pt.

⇒ Program3.html

```
<!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(GrowText, 100);
function GrowText()
{
if(size<=50)
{
size = size +1;
document.getElementById("myP1").style.fontSize=(size+'pt');
document.getElementById('myP1').style.color='red';
}
else
{
clearInterval(myVar1);
myVar1 = setInterval(shrinkText, 100);
document.getElementById("myP1").style.visibility="hidden";
document.getElementById("myP1").style.fontSize="1pt";
```

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```
document.getElementById("myP2").style.visibility="visible";
}
</
Function ShrinkText()
{
if (size>5)
{
 size=size-1;
document.getElementById("myP2").style.fontsize=(size+"pt");
}
}
</script>
```

Output

TEXT - GROWING

-TEXT - SHRINKING

4. Develop and Demonstrate a HTML5 file that includes JavaScript script that uses functions for the following problems:

a) Parameters: A string

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

c) Parameter: A number

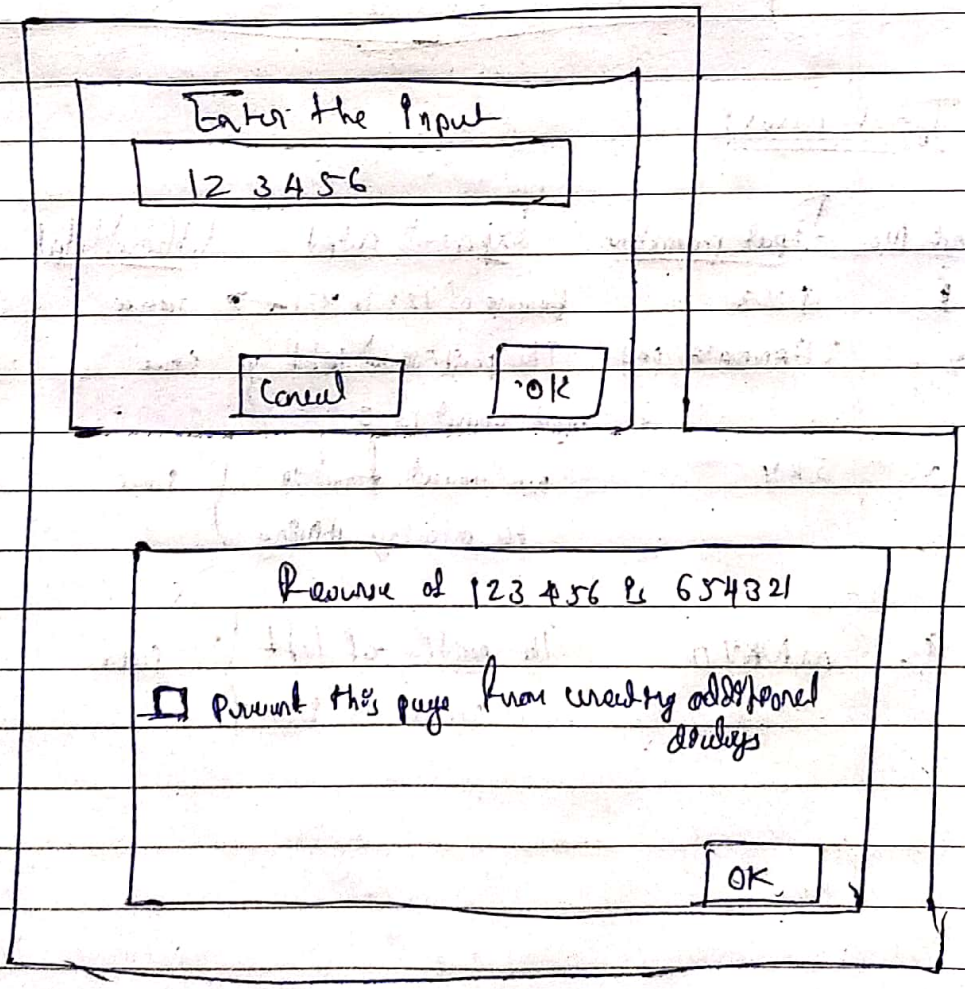
d) Output: The number with its digits in the reverse order.

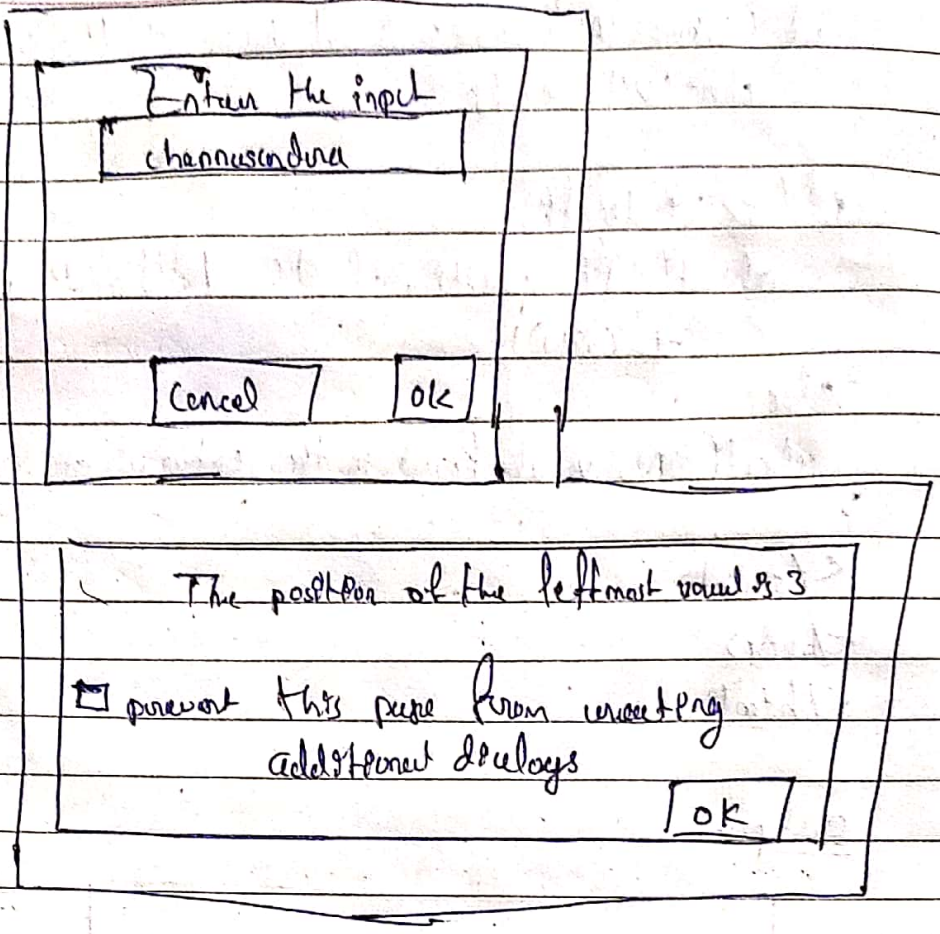
Program4.html

```
<!DOCTYPE>
<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 (chn=='A' || chn<='E' || chn=='I' || chn=='O' ||
    chn=='U') break;
}
if(i<strlength)
    alert("The position of the leftmost vowel is"
        + (i+1));
else
    alert("No vowel found in the entered string");
}
</script>
</body>
</html>
```

Output:





Test cases:

Test No.	Input parameter	Expected output	Obtained Output	Remarks
1	123	Reverse of 123 is 321	same	Pass
2.	CHANNASANDRA	The position of left most vowel is 3	same	Pass
3.	SKY	No vowel found in the ordinary string	same	Pass
4.	MNKTO	The position of left most vowel is 5	same	Pass

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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: .xml

```
<?xml-stylesheet type="text/css" href="5.css"?>
<!DOCTYPE HTML>
<html>
  <head>
    <h1> STUDENTS DESCRIPTION </h1>
  </head>
<students>
    <student>
     <USN> USN: 4SU17CS001 </USN>
     <name> NAME: SANTHOSH </name>
     <college> COLLEGE: SDMIT </college>
     <branch> BRANCH: Computer Science and Engineering </branch>
     <year> YEAR: 2017 </year>
     <email> Email: Santosh@gmail.com </email>
    </student>
    <student>
     <USN> USN: 4SU17CS002 </USN>
     <name> NAME: MANORANJAN </name>
     <college> COLLEGE: SDMIT
     <branch> BRANCH: Computer Science and Engineering </branch>
     <year> YEAR: 2017 </year>
     <email> E-MAIL: 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>
  <e-mail> E-Mail : chethan@gmail.com </e-mail>
</student>
</students>
</html>
```

Program 5.css

```
student{
    display:block; margin-top:10px; colour:Wavy;
}
USN{
    display:block; margin-left; 20px; font-size: 14pt; colour:Red;
}
name{
    display: block; margin-left; 20px; font-size; 14pt; colour:Blue;
}
college{
    display: block; margin-left:20px; font-size ; 14pt; colour:Maroon;
}
branch{
  display: block; margin-left: 20px; font-size:14pt; colour:
          Purple;
}
year{
    display:block; margin-left ; 20px; font-size: 14pt; colour
          Green;
}
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email {
display: block; margin-left: 20px; font-size: 12pt; colour: Blue;
}

output:

STUDENT DESCRIPTION

USN: 4SU17CS001
NAME: SANTOSH
COLLEGE: SDMIT
BRANCH: Computer Science and Engineering
YEAR: 2017
E-Mail: santosh@gmail.com

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

USN: 4SU17CS003
NAME: CHETHAN
COLLEGE: SDMIT
BRANCH: Computer Science and 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 this count of visitors with proper headings.

Program 6.php.

```
<? php
print<h3> REFRESH PAGE</h3>";
$name = " counter.text";
$file = fopen($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

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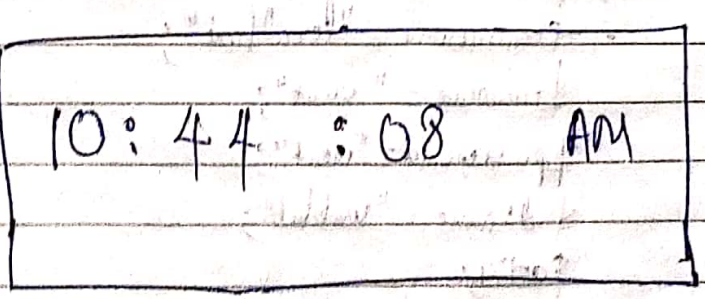
7. Write a PHP program to display a digital clock which displays the current time of the server.

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>
</html>
```

Output:



10. 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 weblab;
create table student ( usn varchar(10), name varchar(20),
    address varchar(20));
```

Program1.php:

```
<!DOCTYPE html>
<html>
  <body>
    <style>
      table, td, th
      {
        border: 1px solid black;
        width: 33%;
        text-align: center;
      border-collapse: collapse;
      background-color: light blue;
      }
      table { margin: auto; }
    </style>
    <?php
      $servername = "localhost";
      $username = "root";
      $password = "root";
      $dbname = "weblab";
      $a=[];
      $conn = mysqli_connect($servername, $username,
              $password, $dbname);
```

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```
if ($conn->connect_errorno)
    die("Connection failed." . $conn->connect_errorno);
$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"];
        $d[$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>";
```

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```
$conn → close();
?>
</body>
</html>
```

Output:

BEFORE SORTING

USN	NAME	Address
4SU17CS019	Vinayaka	Bangalore
4SU17CS008	Darshan	Mysuru
4SU17CS004	Anusha	Ujire
4SU17CS042	Varshini	Belthangady

AFTER SORTING

USN	Name	Address
4SU17CS004	Anusha	Ujire
4SU17CS008	Darshan	Mysuru
4SU17CS019	Vinayaka	Bangalore
4SU17CS042	Varshini	Belthangady