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4SO17CS088
7th sem CSE B

Assignment - I

1. Write a java script to design a simple calculator

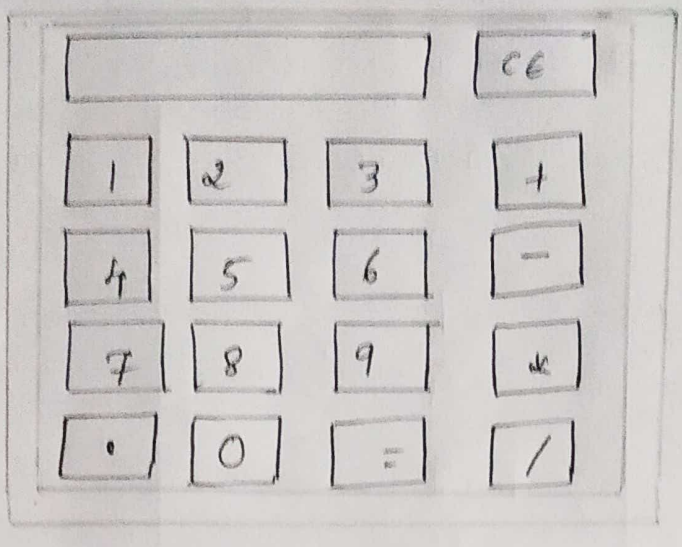
```
<!DOCTYPE HTML>
<html>
<head><title> Weblab PGM1 </title>
<style>
 body {
  text-align : center;
  }
 .title {
   border-radius : 45px;
   margin-bottom: 30 px;
    text-align : center;
    Padding : 14PX 13Px;
    width: 1000 px;
     color : red ;
     background-color : red ;
      boarder : solidblack 2Px ;
   } input [type = " text "] {
      border-radius : 10px;
      text-align : right ;
      background-color : gold ;
      width : 94 % ;
    }
    input [ type = " button "] {
       border-radius : 20 px ;
       background-color : blue ;
```

```
        color : white ;
        border-color : white;
        width: auto;
        }
    .tit{
        border-radius : 45px;
        margin-bottom: 30px;
        text-align : center ;
        width: 150PX;
          color : red;
        background-color: pink;
        border : solid black 3px;
    }
    </style>
    <script>
    function disp(val){
      document.getElementById('SDM').value += val;
    }
    function clr(){
    document.getElement ById('SDM').value = "  ";
}
function solve(){
    let x= document.getElement By Id ('SDM').value;
    let y= eval(x);
    document.get Element By Id("SDM").value= y
  }
</script>
</head>
<body>
<div class = "title"> SDM JAVASCRIPT LABPROGRAM </div>
<center>
<table border = "10" >
    <tr>
    <td>
```

```
<input type = " button" value = " CE" on click" clr ()">
    </td>
    <td colspan = "4">
    <input type = "text" id = " SDM">
      </td>
      </tr>
      <tr>
       <td>
         <input type = " button" value = "4" onclick = "disp
         ('+ ')" >
         </td >
          <td>
<input type = " button" value = " 1" on click = "disp ('1')">
</td>
<td>
<input type = "button" value = "2" on click = "disp ('2')" >
</td>
<td>
<input type = "button" value = "3" on click = "disp ('3')">
</td>
 </tr>
  <tr>
   <td>
<input type = "button" value = " -" on click = "disp ('-')" >
</td>
<td>
<input type = " button" value = " 4" on click = "disp ('4')" >
</td>
<td>
<input type = " button" value = " 5" on click = "disp ('5')" >
</td>
<td>
<input type = " button" value = "6" on click = "disp ('6')" >
```

```
</td>
</tr>
<tr>
<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>
</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>
<td>
<input type = "button" value = "=" onclick = "solve()">
</td>
</tr>
</table>
</center>
</body>
</html>
```

Output :-



2) Jascript progcam to calculate squares and cubes of the numbers from 0 to 10.

```
<!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:-

Numbers from 0 to 10 with their square 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) Javascript program to

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

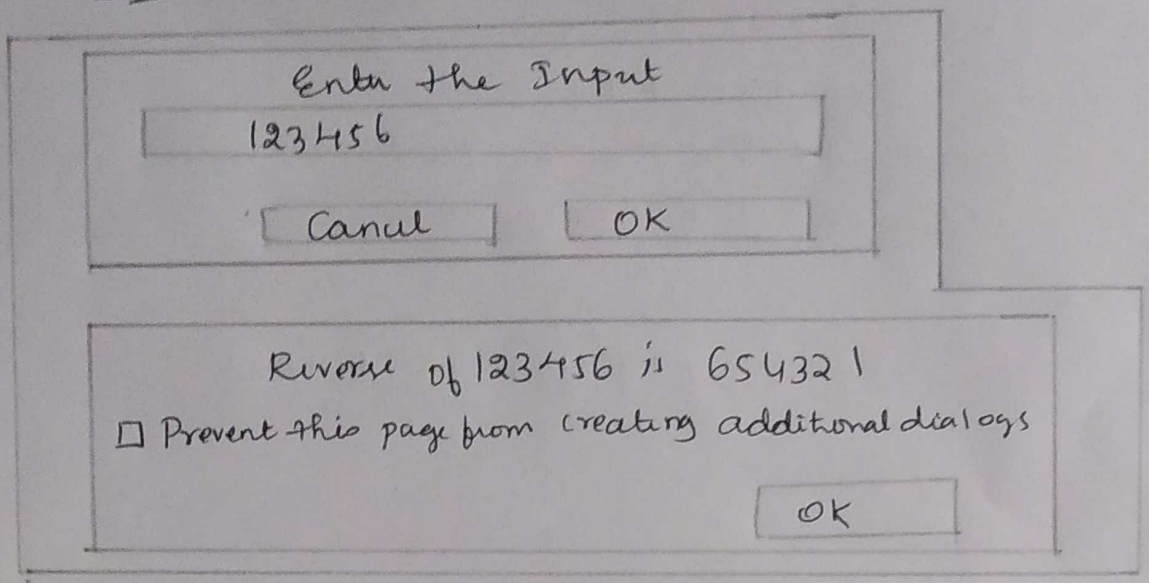
b) number with its digits in the reverse order.

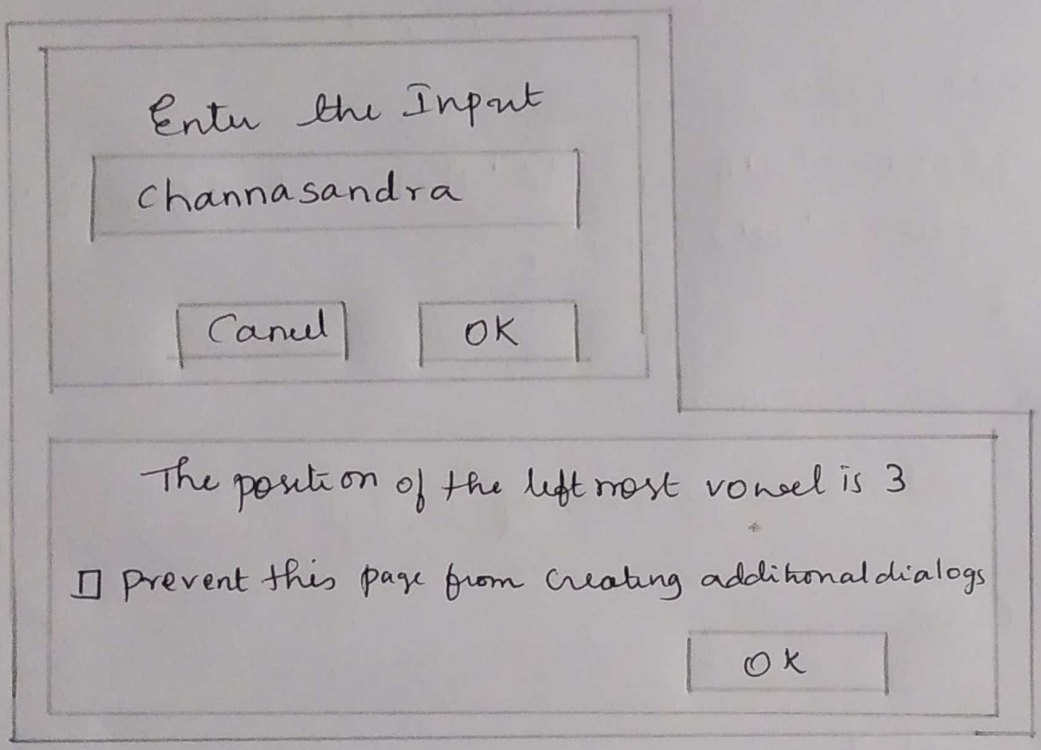
```
<!DOCTYPE HTML>
<html>
  <body>
    <script type="text/javascript">
      var str = prompt("Enter the Input", "");
      if(!(isNaN(str)))
        {
        var num, rev=0, remainder;
```

```
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 chr = str.charAt(i);
        if (chr=='A'||chr=='E'||chr=='I'||chr=='O'||
          chr=='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
123456
Canel
OK
Reverse of 123456 is 654321
Prevent this page from creating additional dialogs
OK


Enter the Input
Channasandra
Canel
OK
The position of the left most vowel is 3
Prevent this page from creating additional dialogs
OK

4) Write a Javascript code that displays "TEXT-GROWING" with increasing font size in the interval of 100 ms — in RED COLOR, when the font size reaches 50pt it displays "TEXT-SHRINKING" Then the font size decreases to 5pt.

program 4.html

```
<!DOCTYPE html>
<html>
<body>
<p id = "myP1" >TEXT-GROWING </P>
<p id = myP2" > TEXT-SHRINKING </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+'PE');
document.getElementById(" myP1").style.color= "red";
}
else
{
clearInterval (myWait1);
myWait1= setInterval(GrowText1, 100);
unicon 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='1pt';
document.getElementById("myP2").style.visibility="visible";
}
}
function shrinkText1()
{
if(size>5)
{
size=size-1;
document.getElementById("myP2").style.fontSize=(size+'pt');
```

output :

TEXT-GROWING

TEXT-SHRINKING

(5) Design an XML document to store information about a student in an engineering college affiliated to VTU. The info 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 & use it to display the document.

Program 5. xml

```
<?xml-stylesheet type="text/css" href="5.css"?>
<!DOCTYPE HTML>
<html>
    <head>
        <h1> STUDENTS DISCRIPTION </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> E-Mail : Santosh@gmail.com </e-mail>
        </student>
        <student>
            <USN> USN : 1SU17CS002 </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.com </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>
</students>

</html>
```

Programs.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: 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;
}
e-mail{
    display : block; margin - left : 20px; font-size : 12pt; color : Blue;
}
```

Output :-

STUDENT DISCRIPTON

USN : HSU17CS001
NAME : SANTHOSH
COLLEGE : SDMIT
BRANCH : Computer Science and Engineering
YEAR : 2017
E-Mail : Santhosh@gmail.com

USN : HSU17CS002
NAME : MANORANJAN
COLLEGE : SDMIT
BRANCH : Computer Science and Engineering
YEAR : 2017
E-mail : manoranjan@gmail.com

USN : HSU17CS003
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 & to display this count of visitors, with proper headings.

Program6.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

2) 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

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 webblab;
create table student (usn 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 = "webblab";
            $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);
    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>";
$conn->close();
?>
</body>
</html>
```

Output:-

BEFORE SORTING

USN	NAME	Address
4SU17CS019	Niranjini	Bengaluru
4SU17CS088	Darshan	Mysuru
4SU17CS004	Anusha	Ujire
4SU17CS042	Vandana	Belthangady

AFTER SORTING

USN	NAME	Address
4SU17CS004	Anusha	Ujire
4SU17CS088	Darshan	Mysuru
4SU17CS019	Niranjini	Bengaluru
4SU17CS042	Vandana	Belthangady