

IITCSL77

Web Technology Lab. with
mini Project

1. a) write a JS to design a simple calculator to perform following operations : sum , product , difference & quotient.

Program:

```
<!DOCTYPE html>
<html>
<head>
    <title> Calculator </title>
    <link rel = "stylesheet" href = "calculator.css">
</head>
<center>
<body>
    <form name = "calculator">
        <table border = "3">
            <tr>
                <td colspan = "3"><input type = "text" name = "display" id = "display" readonly></td>
                <td><input type = "button" value = "c" onclick = "calculator.display.value = ""></td>
                    ↵ display.value = ""
            </tr>
            <tr>
                <td><input type = "button" value = "1" onclick = "calculator.display.value + = '1'">
                    ↵ value + = '1'
                </td>
                <td><input type = "button" value = "2" onclick = "calculator.display.value + = '2'"></td>
                    ↵ value + = '2'
                </td>
                <td><input type = "button" value = "3" onclick = "calculator.display.value + = '3'"></td>
                    ↵ value + = '3'
                </td>
            </tr>
            <tr>
                <td><input type = "button" value = "+" onclick = "calculator.display.value + = '+'"></td>
                <td><input type = "button" value = "-" onclick = "calculator.display.value - = '-'"></td>
                <td><input type = "button" value = "/" onclick = "calculator.display.value / = '/'"></td>
                <td><input type = "button" value = "*" onclick = "calculator.display.value * = '*'"></td>
            </tr>
        </table>
    </form>
</body>
</center>
```

```
<tr>
<td><input type = "button" value = "+" onclick = "calculator.display.value += "+">
</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 = "/" onclick = "calculator.display.value += '/'">
</td>
<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 = "x" onclick = "calculator.display.value += '*'>
</td>
<td><input type = "button" value = "0" onclick = "calculator.display.value += '0'">
</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>
</table>
</form>
<center>
<hr>
```

2. Write a JS that calculates the square & cubes of the no from 0 to 10 & display HTML text that displays the resulting values in an HTML table format.

```

<html>
<head>
<title> Square & cubes </title>
<script>
document.write('<h1 align = "right"> squares and cubes of the no. from
0 to 10 </h1>');

document.write('<center><table width = "30%" border = "1" bgcolor = "white">');
document.write('<tr><th> No </th><th> Square </th><th> Cube </th></tr>');
for (var n=0; n <= 10; n++)
{
    document.write("<tr><td>" + n + "<td>" + n * n + "<td>" + n * n * n + "<td></tr>");
}
document.write('</table>');
</script>
</head>
</html>

```

Output:-

No.	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 JS code that displays text "Text - Growing" with increasing font size in the interval of 10ms in RED COLOR, when the font size reaches 50px it displays "TEXT - SHRINKING" in Blue color. Then the font size decreased to 5pt.

Pgm:

```
<!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 myWait1 = setInterval(GrowText, 100);
function GrowText()
{
    if (size < 51)
    {
        size = size + 1;
        document.getElementById("myP1").style.fontSize = (size + 'pt');
        document.getElementById("myP1").style.color = "red";
    }
    else
    {
        clearInterval(myWait1);
        myWait1 = setInterval(ShrinkText, 100);
        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 & demonstrate a HTML file that includes JS
that uses for following problems:

a) Parameter : A string

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

c) Parameter : A number

d) Output : The no. with 10 digit in the reverse order.

Pgm:

```
<!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;
        }
      }
    </script>
  </body>
</html>
```

```
- if (i < str.length)
    alert("The position of the left most vowel is " +(i+1));
else
    alert("No vowel found in the entered string");
```

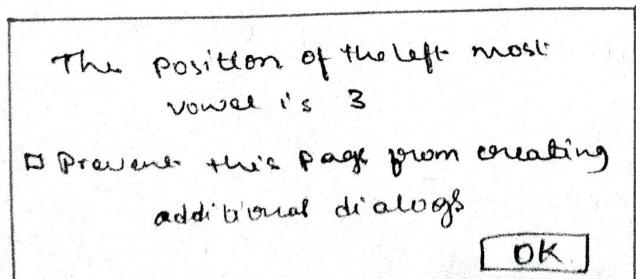
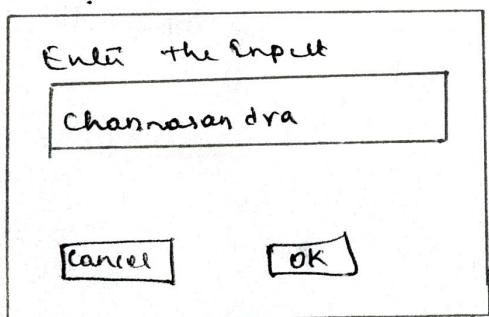
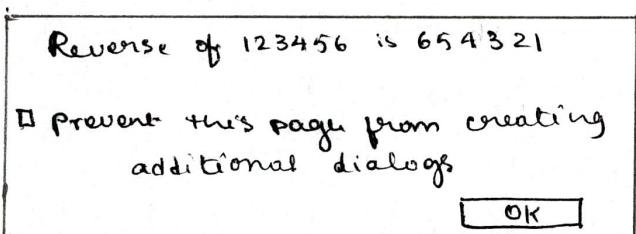
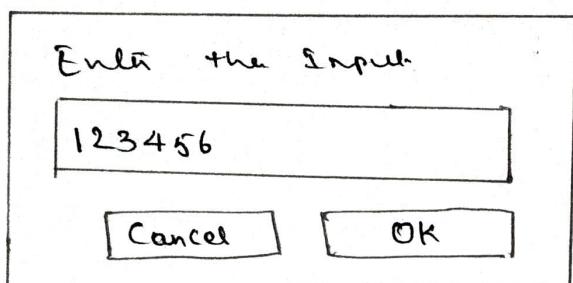
}

</script>

</body>

</html>

Output:



- 5 Design an XML document to store info 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 sheet & use it to display the documents.

Page:

```
<?xml -stylesheet type = "text/css" href = "s.css"?>
<!DOCTYPE HTML>
<html>
  <head>
    <title> STUDENTS DESCRIPTION </title>
  </head>
  <body>
    <student>
      <USN> USN : 4SUI18CS002 </USN>
      <name> NAME : Chaitresh </name>
      <college> COLLEGE: SDM IT </college>
      <branch> BRANCH: Computer Science </branch>
      <year> YEAR: 2017 </year>
      <email> E-MAIL: ck@gmail.com </email>
    </student>
    <student>
      <USN> USN : 4SUI17CS003 </USN>
      <name> NAME: Manohar </name>
      <college> COLLEGE: SDM IT </college>
      <branch> BRANCH: CSE </branch>
      <year> YEAR: 2017 </year>
      <email> E-MAIL: mn@gmail.com </email>
    </student>
```

<student>

<USN> USN: 9SUI7C5004 </USN>

<name> NAME! Manja </name>

<college> COLLEGE! SDMITS </college>

<branch> BRANCH! CSE </branch>

<Year> YEAR! 2017 </Year>

<email> Email: manja@gmail.com </email>

</student>

</student>

</html>

5. 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 DESCRIPTION

USN: 4SU16CS012

NAME: Chaitresh

COLLEGE: SDM IT

BRANCH: Computer science

YEAR : 2014

E-mail: ck@gmail.com

USN: 4SU17CS003

NAME: Manohar

COLLEGE: SDM IT

BRANCH: CSE

YEAR: 2017

E-mail: mn@gmail.com

USN: 4SU17CS004

NAME: Manja

COLLEGE: SDM IT

BRANCH: CSE

YEAR: 2017

E-mail: manja@gmail.com.

6. Write a PHP program to keep track of the no. of visitors visiting the web page & display this count of visitors, with proper heading.

Pgm:

```
<?php  
print "<h3> REFRESH PAGE </h3>";  
$name = "counter.txt";  
$file = fopen($name, "r");  
$w[0] = fscanf($file, "%d");  
fclose($file);  
$w[0]++;  
$file = fopen($name, "w");  
fprintf($file, "%d", $w[0]);  
fclose($file);  
print "Total number of views:", $w[0];
```

?>

Output:

REFRESH PAGE

Total number of view: 10

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

Pgm:

```
<!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>
```

10. Write a PHP pgm to sort the student records which are stored in the database using Selection sort.

Page 1

```
<!DOCTYPE html>
<html>
  <body>
    <style>
      table, td, th {
        border: 1px solid black;
        width: 33.33333333333333% !important;
        text-align: center;
        border-collapse: collapse;
        background-color: lightblue;
      }
      table { margin: auto; }

    </style>
    <?php
      $servername = "localhost";
      $username = "root";
      $password = "root";
      $dbname = "weblab";
      $a = [];
    ?>
```

Open a new connection to the MySQL server.

from a very slight contact (Guernsey, Guernsey, Plymouth,
Brixham);

Initial connection & return can exist separately from the
last connection until, if any

```
- if ($conn -> connect_error)
    die("Connection failed: " . $conn -> connect_error);

$sql = "SELECT * FROM student";
// performs a query against the db.
$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++)
```

$\$pos = \$i;$

$\text{for} (\$j = \$i + 1; \$j < \$n; \$j++) \{$
 $\quad \text{if} (\$a[\$pos] > \$a[\$j])$
 $\quad \quad \$pos = \$j;$

}

$\text{if} (\$pos != \$i) \{$

$\quad \$temp = \$a[\$i];$

$\quad \$a[\$i] = \$a[\$pos];$

$\quad \$a[\$pos] = \$temp;$

}

}

$\$c = [];$

$\$d = [];$

$\$result = \$conn \rightarrow query($qL);$

$\text{if} (\$result \rightarrow num_rows > 0)$

{

$\text{while} (\$row = \$result \rightarrow fetch_assoc()) \{$

$\text{for} (\$i = 0; \$i < \$n; \$i++) \{$

$\quad \text{if} (\$row["usn"] == \$a[\$i]) \{$

$\quad \quad \$c[\$i] = \$row["name"];$

$\quad \quad \$d[\$i] = \$row["addr"];$

}

$\text{echo } "<\br>" ;$

$\text{echo } "<\text{content}> \text{AFTER SORTS. ORG } <\text{content}>" ;$

$\text{echo } "<\text{table border} = '2'>" ;$

```
echo "<br>";  
echo "<th> USR </th><th> NAME </th><th> ADDRESS </th><th>"  
  
for ($i = 0; $i < $n; $i++) {  
    echo "<tr>";  
    echo "<td>". $a[$i]. "</td>";  
    echo "<td>". $c[$i]. "</td>";  
    echo "<td>". $d[$i]. "</td><td>";  
  
}  
  
echo "</table>";  
$conn->close();  
  
??>  
<body>  
<html>  
  
① p:  
  BEFORE SCRATCH  
  
② conn
```