

LAB PROGRAM

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4SUI7CS091
WTA LAB

- 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.value += '2'"></td>
      <td><input type = "button" value = "3" onclick = "calculator.display.value += '3'"></td>
      <td><input type = "button" value = "4" onclick = "calculator.display.value += '4'"></td>
    </tr>
    <tr>
      <td><input type = "button" value = "#" onclick = "calculator.display.value += '#'></td>
```

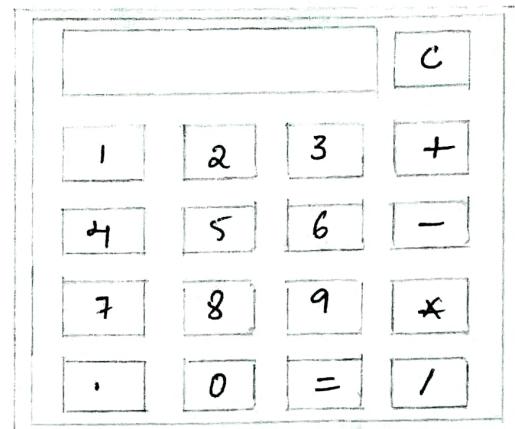
```

<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="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>
<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>
```

27 Output :



28 Write a JavaScript that calculates 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 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
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) Develop and demonstrate a HTML5 file that includes JavaScript script that uses functions for the following problems:
- The position in the string of the left-most vowel
 - The number with its digits in the reverse order.

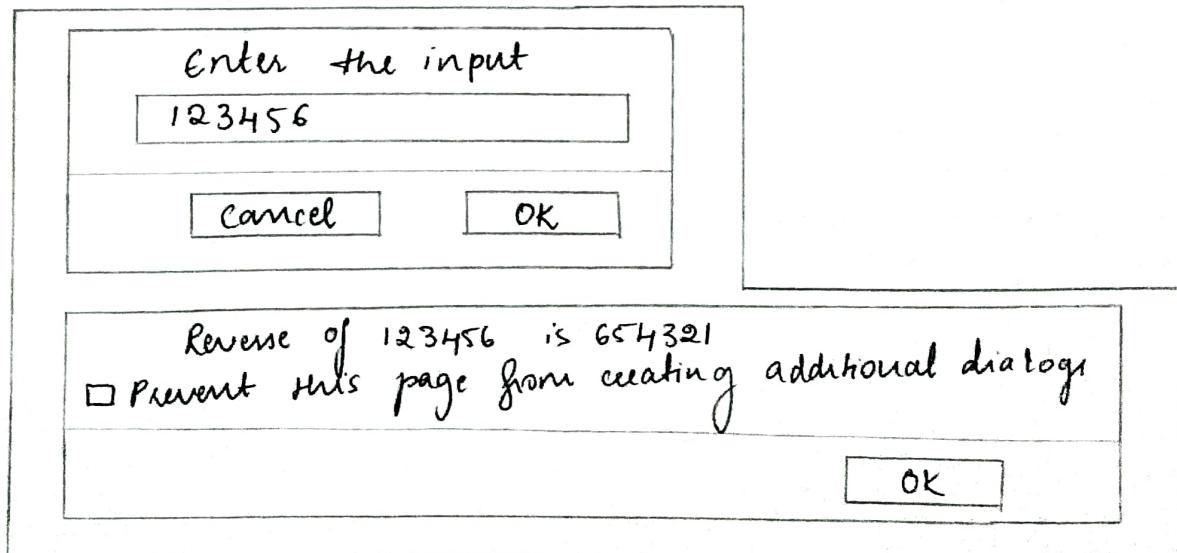
```
<!DOCTYPE HTML>
<html>
  <body>
    <script type="text/javascript">
      var str = prompt("Enter the input", "");
      if (isNaN(str))
      {
        var num, rev=0, remainder;
        num = parseInt(str);
        while (num != 0)
        {
          remainder = num % 10;
          num = parseInt(num / 10);
          rev = rev * 10 + remainder;
        }
      }
    </script>
  </body>
</html>
```

```

        alert ("Reverse of "+str+" is "+rev);
    }
    else
    {
        str = str.toUpperCase (asc ());
        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 vowel is "+(i+1));
        else
            alert ("No vowel found in the entered string");
    }
</script>
</body>
</html>

```

output:



EXPERIMENT - 04

Write a JavaScript code that displays text "TEXT-GROWING" with increasing font size in the interval of 100ms in RED COLOR, when the font size reaches 5pt 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>
<script>
var size = 10;
var i = 0;
var myWait1 = setInterval(GrowText1, 100);
function 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');
        document.getElementById("myP2").style.color = "blue";
    }
}
</script>
</body>
</html>
```

```
{  
size = size - 1;  
document.getElementById("myP2").style.fontSize = (size + 'pt'),
```

Output :

TEXT-GROWING

TEXT SHRINKING

EXPERIMENT - 05

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.

program5.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 : Sowmya </name>
      <college> COLLEGE : SDM IT </college>
      <branch> BRANCH : Computer Science and
                Engineering </branch>
      <year> YEAR : 2017 </year>
      <e-mail> E-mail : sowmya71@gmail.com
                </e-mail>
    </student>
    <student>
      <USN> USN : 4SU17CS002 </USN>
      <name> NAME : Keerthi </name>
      <college> COLLEGE : SDM IT </college>
      <branch> BRANCH : Computer Science and
                Engineering </branch>
      <year> YEAR : 2017 </year>
      <e-mail> E-mail : keerthigonda@gmail.com
                </e-mail>
    </student>
    <student>
```

```
<USN> USN : 4SUI7CS003 </USN>
<name> NAME : Pooja </name>
<college> COLLEGE : SOMIT </college>
<branch> BRANCH : Computer Science and
Engineering </branch>
<year>YEAR : 2017 </year>
<e-mail> E-MAIL : poojaacharya@gmail.com
</e-mail>
</student>
</students>
</html>
```

program 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 : 4SV17CS001
NAME : SOWMYA
COLLEGE : SOMIT
BRANCH : Computer Science and Engineering
YEAR : 2017
E-mail : sowmya71@gmail.com

USN : 4SV17CS002
NAME : KEERTHI
COLLEGE : SOMIT
BRANCH : Computer Science and Engineering
YEAR : 2017
E-mail : keerthigonda@gmail.com

USN : 4SV17CS003
NAME : POOJA
COLLEGE : SOMIT
BRANCH : Computer Science and Engineering
YEAR : 2017
E-mail : poojaacharya@gmail.com.

EXPERIMENT - 06

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.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

EXPERIMENT : 07

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

EXPERIMENT - DB

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));
```

program08.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 = [];
```

```
    // Create connection
```

```
    // opens a new connection to the MySQL server
```

```
    $conn = mysqli_connect($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 "<th>";
echo "<th> USN </th> <th> NAME </th> <th> Address </th> </th> ";
if ($result → num_rows > 0)
{
    while ($row = $result → fetch_assoc ()) {
        echo "<tr>";
        echo "<td>". $row ["usn"]. "</td>";
        echo "<td>". $row ["name"]. "</td>";
        echo "<td>". $row ["address"]. "</td>";
        array_push ($a, $row ["usn"]); </td>";
    }
}
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["user"] == $a[$i])
            {
                $c[$i] = $row["name"];
                $d[$i] = $row["addr"];
            }
        }
    }
    echo "<bx>";
    echo "<center> AFTER SORTING <center>";
    echo "<table border = '2'>";
    echo "<tr>";
    echo "<th>User </th><th>Name </th><th>Address </th></tr>";
    for ($i = 0; $i < $n; $i++)
    {
        echo "<td>";
        echo "<td>". $a[$i]. "</td>";
        echo "<td>". $c[$i]. "</td>";
        echo "<td>". $d[$i]. "</td><td>";
    }
    echo "</table>";
    $conn -> close();
}

```

</body>
</html>

Output:

BEFORE SORTING

USN	NAME	Address
4SU17CS019	Niranjini	Bengaluru
4SU17CS008	Darshan	Mysore
4SU17CS004	Anusha	Ujire
4SU17CS042	Vandana	Bellthamgady

AFTER SORTING

USN	NAME	Address
4SU17CS004	Anusha	Ujire
4SU17CS008	Darshan	Mysore
4SU17CS019	Niranjini	Bengaluru
4SU17CS042	Vandana	Bellthamgady