

LAB PROGRAM - Observation  
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WTA LAB

TTCSLT7

Solu

- i) 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 = "style.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>
```

```
<td><input type="button" value="4" onclick="calculator.display.value+=  
<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>
```

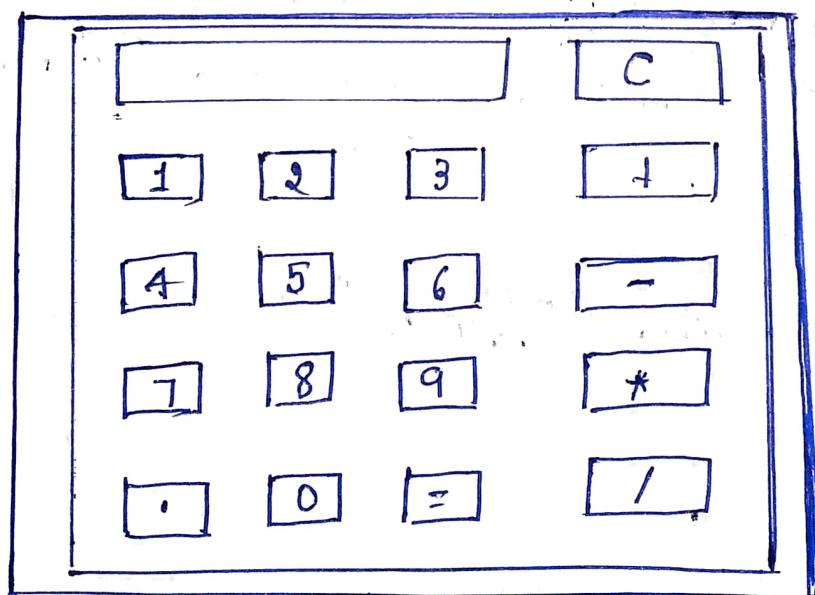
```
<td><input type="button" value="/" onclick="calculator.  
display.value+= '/'></td>
```

</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 :



2) calculate squares and cube 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  
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

Write javascript code that display "TEXT-GROWING" with increasing font size in the interval of 100ms in RED COLOR, when the font size reaches 50pt if display's "TEXT-SHRINKING" in BLUE color. Then the font size decrease to 5pt.

Program3.html

```
<!DOCTYPE html>
<html>
<body>
<p id = "myP1"> TEXT-GROWING </p>
<p id = "myP2"> TEXTSHRINKING </p>
<script>
// Global declarations
```

5

```
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);  
    }  
}  
// Hide the paragraph "text shrinking" document.  
// Hide the 1st paragraph & display the second paragraph  
document.getElementById("myP1").style.visibility = "hidden";  
document.getElementById("myP1").style.fontSize = "1pt";  
document.getElementById("myP2").style.visibility = "visible";  
document.getElementById("myP2").style.fontSize = "1pt";  
function ShrinkText1()  
{  
    if(size > 5)  
    {  
        size = size - 1;  
    }  
}
```

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

### Output

### TEXT-GROWING

4) Develop & demonstrate a HTML5 file that includes JavaScript script that uses functions for the 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 number with its digits in the reverse order.

Program4.html

```
<!DOCTYPE HTML>
```

```
<html>
```

```
<body>
```

```
<script type="text/javascript">
```

```
var str = prompt("Enter the Input", "");
```

```
if (!isNaN(str))
```

```
Var str = prompt("Enter the Input", "");
```

```
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 leftmost vowel  
        is " + (i + 1));
```

```
else
```

```
    alert("No vowel found in the entered string");
```

```
</script>  
</body>  
</html>
```

## Output

Enter the Input  
123456

Cancel      Ok.

Reverse of 123456 is 654321

prevent this page from creating additional dialogs

Ok

Enter the Input

chunnasandra

Cancel OK

The position of the left most word is

prevent this page from creating additional dialogs

OK

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 5. XML

```

<?xml-stylesheet type="text/css" href="5.css"?>
<!DOCTYPE HTML>
<html>
  <head>
    <h1> STUDENTS DESCRIPTION </h1>
  </head>
  <students>
    <student>
      <USN> USN : A5U17CS001 </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>
  </students>
</html>

```

<student>  
<USN> USN : 4SUIT(S002 </USN>  
<name> NAME : MANORANJAN </name>  
<college> COLLEGE : SDMITS </college>  
<branch> BRANCH : computer Science and Engineering </branch>  
<year> YEAR : 2017 </year>  
<email> Email : monoranjun@gmail.com </e-mail>  
</student>  
<student>  
<USN> USN : 4SUIT(S003 </USN>  
<name> NAME : CHETHAN </name>  
<college> COLLEGE : SDMITS </college>  
<branch> BRANCH : computer Science and Engineering  
</branch>  
<year> YEAR : 2017 </year>  
<email> Email : chethan@gmail.com </e-mail>  
</student>  
</html>

### Program5.CSS

```
student {  
    display: block; margin-top: 10px; color: Navy;  
}  
#USN {  
    display: block; margin-left: 10px; font-size: 10pt; 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: 10pt; color: Purple;  
}  
Year {  
    display: block; margin-left: 20px; font-size: 14pt; color: green;  
}  
Email {  
    display: block; margin-left: 20px; font-size: 10pt; color: blue;  
}
```

## Output

### STUDENT DESCRIPTION

USN : ASV17CS001

NAME : SANTHOSH

COLLEGE : SDMIT

BRANCH : computer Science and Engineering

YEAR : 2017

E-Mail : Santosh@gmail.com

USN : ASV17CS002

NAME : MANORAJAN

COLLEGE : SDMITS

BRANCH : computer Science and Engineering

YEAR : 2017

E-Mail : manorajan@gmail.com

USN : ASV17CS003

NAME : CHETHAN

COLLEGE : SDMITS

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 the count of visitors with proper headings.

Program6.php

```
<?php
```

```
    print "<h3>REFRESH PAGE</h3>";  
    $name = "counter.txt";  
    $file = fopen($name, "r");  
    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

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

Program7.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:sA") ?></p>
</head>
```

Output:

10:44:08 AM

Output :

10:44 : 08AM

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));

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;
```

```
}
```

```
        </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);

// Check connection and return an error description from the
// last connection error, if any
if ($conn->connect_error)
    die("connection failed: ". $conn->connect_error);

$sql = "SELECT * FROM student";
// performs a query against the database
$result = $conn->query($sql);
echo "<br>";
echo "<center> BEFORE SORTING </center>";
echo "<table border = '1'>";
echo "<tr>";
echo "<th>USN</th><th>NAME </th><th>Address</th></tr>";
if ($result->num_rows > 0)
{
    // output data of each row and fetches a result row
    // as an associative array
    while ($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) // output data of each row

{

while (\$row = \$result->fetch\_assoc()) {

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

if (\$row["ush"] == \$a[\$i]) {

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

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

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) // output data of each row

{

while (\$row = \$result->fetch\_assoc())

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

if (\$row["ush"] == \$a[\$i])

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

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

y  
y  
y  
y

```
echo "<br>";  
echo "<center> AFTER SORTING <center>"  
echo "<table border='2'>";  
echo "<tr>";  
echo "<th> USNC</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
ASU17CS019	Niranjini	Bengaluru
ASU17CS008	Daishan	Mysore
ASU17CS004	Anusha	Ujire
ASU17CS042	Vandana	Belthangady

### AFTER SORTING

USN	NAME	Address
ASU17CS004	Anusha	Ujire
ASU17CS008	Daishan	Mysore
ASU17CS019	Niranjini	Bengaluru
ASU17CS042	Vandana	Belthangady