WEB TECHNOLOGY LABORATORY.
WITH MINI PROJECT.

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4SU17CS060.
7th sem 'A'

1. Write a javascript to design simple calculator to perform following operation: sum, product, difference and quotient

```
<!.DOCTYPE>.
<html>.
<head>.
    <.link rel = "stylesheet" href = "sty.css"/>.

</head>.
<body>.
    <form name = "calculator">.
        <table border = "8">.
        <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.
        <td><input type="button"       display.value+="4"></td
                                 value = "5" onclick="calculator.
                                 display.value+="5"></td>
```

```html
<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=eval(Calculator.display.value)"></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>
```

2. Write a Javascript that calculates the squares and cube of the numbers from 0 to 10 and outputs HTML text that display the resulting values in an HTML table format.

```html
<html>
<head>
<script>
document.write("<h1 align="right">square and cube of the number from 0 to 10</h1>");
document.write("<center><table width="30%" border=1 bgcolor="white">");
document.write("<tr><th>Number 4th></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>
```

3. write a Java script code that displays text "TEXT-GROWING" with increasing font size in the interval of 100ms in RED color when the font size displays "TEXT-SHRINKING" in Blue color, Then the font size decreases to 5pt.

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

```
// Global declaration.
var size = 10;
var i = 0;
var mywait1 = setInterval(growText1, 100);
function growText1()
{
if (size < 51)
{
  size = size + 1;
  document.getElementByID("my P1").style.fontsize = (size + 'Pt');
  document.getElementByID("my P1").style.color = "red";
// Hide the paragraph "text shrinking: document.getElementByID
                           ("my P2").style.visibility = "hidden";
}
else
{
  clearInterval(mywait1);
  mywait1 = setInterval(shrinkText1, 100);
  document.getElementByID("my P1").style.visibility = "hidden";
  document.getElementById("my P2").style.fontsize = "1pt";
  document.getElementByID("myP2").style.visibility = "visible";
}
}
function shrinkText1()
{
if (size > 5)
{
  size = size - 1;
  document.get_ElementByID("my P2").style.fontsize = (size + 'Pt');
```

4. Develop and demonstrate a HTML5 file that preludes javascript that uses function 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 no. with its digits in the reverse order.

```
<!DOCTYPE HTML>
<html>
   <body>
    <script type = "text/java script">
    var str = prompt ("enter the input", "");
    if (! (isNaN (str)))
    {
        var num, rev = 0, remainder;
        num = parse Int (str);
        while (num != 0) {
            remainder = num % 10;
            num = parseInt (num/10);
            rev = rev * 10 + remainder;
        }
        alert ("Reverse of " + str + "is " + rev);
    }
    else
    {
        str = str.toUpper Case ();
        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));
```

```
alert ("no vowel found in the entered string");
  </script>
<lbody>
<lhtml>
```

6. Deign 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.

```
< ? xml - stylesheet type = "text / css" href = "s. css"?>
<!Doctype HTML>
<html>
    <head>
    <h1> STUDENT DESCRIPTION </h1>
    </head>
    <student>
        <USN> USN : 4SU17CS0001 </USN>
        <name> NAME: SANTHOSH </name>
        <college>COLLEGE : SDMIT </college>
        <branch > BRANCH: Computer Science and Engineering</branch>
        <year> YEAR = 2017 </year>
        <e-mail >E-Mail : santhosh@gmail.com </e-mail>
    </student>

    <student>
        <USN> USN : 4SU17CS002 </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 : 4SO17CS003 </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 ; color: Navy;
}
USN {
    display :block; margin-left : 70px; font-size :14pt; color: Red;
}

name {
    display: block; margin-left :20px; font-size :12pt; 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 2
```
display : block : margin - left 20px : font - size : 14pt : color : green;
}
email {
    display : block : margin - left : 20px : font : size : 12pt : color : Blue;
}
```

6 Write a PHP program to keep track of the numbers of visitors visiting the web page and to display the count of visitors, with proper headings.

```php
<?php
    print "<h3>REFRESH PAGE </h3>";
    $fname = "counter.txt";
    $file = fopen ($fname , "r");
    $hits = fscan ($file , "%d");
    fclose ($file);

    .$hits [0]++;
    $file =fopen ($name ,"w");
    fprint ($file , "%d", $hits [0]);
    fclose ($file);
    print "Total no. of views :" $hits [0];
?>
```

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

```
<! 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 program to sort the student records which are sorted in the database using selection sort.

Goto Mysql and then type.

Create database wblab;

use wblab;

Create table student (usn varchar (10), name varchar (20),
                     address varchar (20));

```html
<!Doctype html>
<html>
    <body>
        <style>
            table, td, th
            {
                border: 1px solid black;
                width: 83% ;
                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

        //open 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 students ";
```

```php
//perform a query against the database
$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><hr>";
if ($result -> num_rows >0)
{
    //output data of each rows and fetch a result row as an
    associated array.
    while ($row = $result -> fetch_assoc()){
        echo "<tr>";
        echo "<td>". $row ("usn"). "</td>";
        echo "<td>". $row ("name")."</td>";
        echo "<td>". $row ("addr"). </td ><hr>";
        array-push ($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;
```

```php
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["uin"] == $a[i] {
                    $c[$i] = $row["name"];
                    $d[$i] = $row["addr"];
                }
            }
        }
    }

echo "<br>";
echo "<centu> AFTER SORTING </centu>";
echo "<table border = '2'>";
echo "<tr>";
echo "<th>UIN </th> <th> NAME </th> <th> Addr</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>.
```