

WEB TECHNOLOGY LABORATORY
WITH MINI PROJECT

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AS017CS101

17CSL77



Experiment-01:

Write a Javascript to design a simple calculator to perform the following operations: sum, product, difference & quotient.

Program:

```
<!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>
```

①.

<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="4" onclick="calculator.
display.value += '4'"></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> .

②

</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>

</html>

</html> .

OUTPUT:-

			C
1	2	3	+
4	5	6	-
7	8	9	*
.	0	=	/

Test Cases:-

Test No.	Input Parameters	Expected output	Obtained Output	Remarks.
1.	value 1 = 50.56 value 2 = 24.39	Addition = 74.95 Subtraction = 26.17 Multiplication = 1233.1584 Division = 2.07298072980	Addition = 74.95 Subtraction = 26.17 Multiplication = 1233.1584 Division = 2.07298072980	PASS.
2.	value 1 = 0 value 2 = 45	Addition = 45 Subtraction = -45 Multiplication = 0 Division = 0	Addition = 45 Subtraction = -45 Multiplication = 0 Division = 0	PASS.
3.	value 1 = 45 value 2 = 0	Addition = 45 Subtraction = 45 Multiplication = 0 Division = 0	Addition = 45 Subtraction = 45 Multiplication = 0 Division = 0	PASS.
4.	value 1 = abc value 2 = 0	Enter valid number.	Enter valid number	PASS.
5.	value 1 = 50 value 2 = xyz	Enter valid number.	Enter valid number	PASS. (4)

Experiment - 02 :-

Write a Javascript that calculates the squares & cubes of the numbers from 0 to 10 & outputs HTML text that displays the resulting in an HTML table format

PROGRAM:-

```
<html>
```

```
<head>
```

```
<script>
```

```
document.write ('<h1 align="right"> Squares & cubes of the  
numbers from 0 to 10 </h1>');
```

```
document.write ('<center> <table width = "30%" border = "1"  
bg color = "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 .

NUMBER 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 .

Experiment - 03:

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 50pt it displays "TEXT SHRINKING" in BLUE color. Then the font size decreases to 5pt.

PROGRAM:

```
<!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(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);
```

```
myWatt1 = 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');
```

```
    }
```

```
}
```

```
</script>
```

```
</html>
```

```
OUTPUT:
```

TEXT - GROWING

TEXT SHRINKING

Experiment - 04:

Develop & demonstrate a HTML5 file that includes Javascript 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 .

PROGRAM:

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

```
g.
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:

Enter the Input

1 2 3 4 5 6 .

CancelOK

Reverse of 123456 is 654321

☐ Prevent this page from creating additional dialogs.

OK

Experiment -05

Design an XML document to store information about a student in an engineering college affiliated to VTU. The info must include roll no, 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 document.

Program:-

```
<?xml-stylesheet type="text/css" href="5-10" ?>
```

```
<!DOCTYPE HTML>
```

```
<html>
```

```
  <head>
```

```
    <h1> STUDENT DESCRIPTION </h1>
```

```
  </head>
```

```
  <students>
```

```
    <student>
```

```
      <UN> UN : 4017C1001 </UN>
```

```
      <name> NAME : JANITHU </name>
```

```
      <College> COLLEGE : JDMIT </college>
```

```
      <branch> BRANCH : Computer Science & Engineering  
        </branch>
```

```
      <year> YEAR : 2017 </year>
```

```
      <e-mail> E-mail : janthu@gmail.com </email>
```

```
    </student>
```

```
    <student>
```

```
      <UN> UN : 4017C1002 </UN>
```

```
      <name> NAME : MANORAJAN </name>
```

```
      <College> COLLEGE : JDMIT </college>
```

<branch> BRANCH : Computer Science & Engineering
</branch>

<year> YEAR : 2017 </year>

<e-mail> E-mail : manorajjan@gmail.com </e-mail>

</student>

<student>

<IDN> IDN : ASDU17CS003 </IDN>

<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>

style.css:

student {

display: block; margin-top: 10px; color: Navy;

}

IDN {

display: block; margin-top: 10px; font-size: 14pt; color: red;

}

name {

display: block; margin-top: 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

UN: 45U17C5001

NAME: SANTOSH

COLLEGE: JD MIT

BRANCH: Computer Science & Engineering.

YEAR: 2017

E-mail: santosh@gmail.com

UN: 45U17C5002

NAME: MANORANJAN

COLLEGE: JD MIT

BRANCH: Computer Science & Engineering.

YEAR : 2017

E-Mail : manoranjan@gmail.com

UIN : 4J0171S009

NAME : CHETHAN

COLLEGE : SDMIT

BRANCH : Computer Science & Engineering

YEAR : 2017

E-Mail : chethan@gmail.com

Experiment 06:-

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.

PROGRAM:-

```
<?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:-

```
<!DOCTYPE HTML>
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="refresh" content="1" />
```

```
<style>
```

```
{
```

```
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>
```

```
</html>
```

OUTPUT:-

10: 44: 08 AM

Experiment - 101

Write a php program to sort the student records which are stored in the database using selection sort.

Go to Mysql & then type

```
create database weblab;
```

```
use weblab;
```

```
create table student (roll varchar(10), name varchar(20),  
address varchar(20));
```

PROGRAM:

```
<!DOCTYPE HTML>
```

```
<html>
```

```
<body>
```

```
<style>
```

```
table,td,th
```

```
{
```

```
border: 1px solid black;
```

```
width: 33.33%;
```

```
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 & 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";
```

```
$result = $conn->query ($sql);
```

```
echo "<br>";
```

```
echo "<table> BEFORE SORTING </table>";
```

```
echo "<table border = '1'>";
```

```
echo "<tr>";
```

```
echo "<th> ID </th> <th> Name </th> <th> Address </th> </tr>";
```

```
if ($result->num_rows > 0)
```

```
{
```

```
    while ($row = $result->fetch_assoc()) {
```

```
        echo "<tr>";
```

```
        echo "<td> ". $row["id"] . "</td>";
```

```
        echo "<td> ". $row["name"] . "</td>";
```

```
        echo "<td> ". $row["addr"] . "</td> </tr>";
```

```
        array_push ($a, $row["id"]);
```

```
    }
```

```
}
```

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

```

```
echo "<br>";
```

```
echo "<center> AFTER SORTING </center>";
```

```
echo "<table border = '2'>";
```

```
echo "<tr>";
```

```
echo "<th> UIN </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

UIN	NAME	Address
45017C5019	Niranjini	Bengaluru
45017C5008	Darshan	Mysuru
45017C5004	Anusha	Ujire
45017C5042	Vandana	Belthangady

AFTER SORTING

UIN	NAME	Address
45017C5004	Anusha	Ujire
45017C5008	Darshan	Mysuru
45017C5019	Niranjini	Bengaluru
45017C5042	Vandana	Belthangady