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4SUI7CS121

Web technology  
and applications  
laboratory

17CSL77

- 1] write a javascript program to design a simple calculator  
→ to perform the following operations: sum, product, difference and quotient

⇒ program1.html

```
<!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> <br>
            <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="5" onclick="calculator.  
display.value += '5'"></td>

<td> <input type="button" value="6" onclick="calculator.  
display.value += '6'"></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>

</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> 0 = 1.00 0 = 1.00

<tr> 0 = .00 0 = .00

<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:

	C
--	---

1	2	3	+
---	---	---	---

4	5	6	-
---	---	---	---

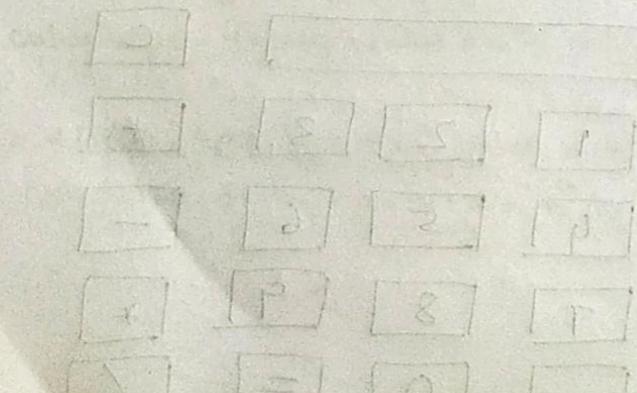
7	8	9	*
---	---	---	---

	0	=	/
--	---	---	---

3

# Tut Case:

tut no	input params	Expected o/p	obtained o/p	Remarks
1	val1 = 50.55 val2 = 24.39	add = 74.95 sub = 26.17 mul = 1233.15 div = 2.072	add = 74.95 sub = 26.17 mul = 1233.15 div = 2.072	PASS.
2	val1 = 6 val2 = 45	add = 45 sub = -45 mul = 0 div = 0	add = 45 sub = -45 mul = 0 div = 0	PASS
3.	val1 = abc val2 = 23	ENTERVALID NO	ENTERVALID NO	PASS



2] Write a javascript that calculates Squares and Cubes of the numbers from 0 to 10 and outputs HTML text that displays the resulting values in an HTML table format.

⇒ Program 2.html

```
<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">
<tr><th>Number </th><th>Squared</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

(tit & (i=>n, o=n) or not) + 0

((b+1)^2 + a^2 + 8 \* ((b+1)^3 + a^3 + 8 \* ((b+1)^5 + a^5)) \* tit & transabs  
 ((b+1)^2 \* b^2 \* a^2 + a^2 \* a^2 + b^2 \* b^2)

((b+1)^2 \* tit & transabs

+ piece &  
 share) >

((b+1)^2 \*

3) 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 decreases to 5pt.

=> Program 3.html

```
<!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
            + 'px');
        document.getElementById("myp2").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 shrinkText()

{

if (size > 5)

{ size = size - 1;

document.getElementById("myp2").style.fontSize =

(size + "pt") ;

}

}

</script>

</body>

</html>

output:

TEXT-GROWING

TEXT-SHRINKING

{

8/3

{ this is for horizontal scroll }

(300, 1 + 100 \* size) / scrollSize = 1 scroll

text.innerHTML += "<br>" + ("10pt");

{ add 10pt }

4) develop and demonstrate a HTML 5 file that includes javascript script that uses functions for the following problem

- Parameter : A String
- Output: The position of the leftmost vowel.
- Parameter: A number.
- Output: The number with its digits in the reverse order.

=) program4.html

```
<!DOCTYPE html> <html> <head> <title> </title>
<html>
<body>
<script type="text/javascript">
var str = prompt("Enter the Input");
if((!isNaN(str)))
{
    var remainder = 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
{
    alert("Please enter a valid number");
}
```

```

    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 in the entered string");
    }
}

```

Q1:

Enter the Input

(123456) → 654321

Reverse of 123456 is 654321

Enter the Input

(ChannaSandra) → ariSandhaAnnaCh

The position of the left most vowel is 3.

3) design 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 in XML

```
<?xml-stylesheet type = "text/css" href = "5.css"?>
<!DOCTYPE HTML>
<html>
  <head>
    <h1> STUDENTS DESCRIPTION </h1>
  </head>
  <body>
    <students>
      <student>
        <USN> USN17CS119 </USN>
        <name> NAME: VIKAS </name>
        <college> COLLEGE : STMIIT </college>
        <branch> BRANCH : Computer Science
        </branch>
        <year> YEAR : 2017 </year>
        <email> E-mail : vicky@gmail.com </email>
      </student>
      <student>
        <USN> USN17CS120 </USN>
        <name> NAME: VISHAL </name>
        <college> COLLEGE : STMIIT </college>
```

<branch> BRANCH : computer science </branch>

<year> YEAR : 2017 </year>

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

<student>

<student>

<USN> USN: 456789123 </USN>

<name> NAME: VISHWANATH </name>

<college> COLLEGE : SDM IT </college>

<branch> BRANCH : Computer science </branch>

<year> YEAR : 2017 </year>

<email> E-mail : vk@gmail.com </email>

</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: 12pt;  
color: green;

}

Email{

display: block; margin-left: 20px; font-size: 12pt;  
color: blue;

}

output:

STUDENT DESCRIPTION:

USN: 4SUI7CS129

NAME: VIKAS

COLLEGE: SD MIT

BRANCH: COMPUTER SCIENCE

YEAR: 2017

E-mail: vicky@gmail.com.

USN: 4SU17CS120

NAME: VISHAL

COLLEGE: SDM IT

BRANCH: Computer Science.

YEAR: 2017

E-mail: vishal@gmail.com

USN: 4SU17CS121

NAME: VISHWANATH

COLLEGE: SDM IT

BRANCH: Computer Science

YEAR: 2017

E-mail: vishwa@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

### program.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");
```

```
printf ($file, "%d", $hits[0]);
```

```
fclose ($file);
```

```
print "Total number of views: $hits[0];
```

```
??
```

```
$t1 = print total;
```

```
( $total, " ") . $t1 . $total;
```

```
"<br> visit again <br> <br>";
```

```
REFRESH PAGE
```

```
( " <br> 30sec - [ F2 ] <br> " ) . $t1;
```

```
Total number of views: 10
```

```
( $total, " ") . $t1 . $total;
```

```
( $total ) = $t1 . $total;
```

```
{
```

7] write a php program named states.php that declares a variable states with value "Mississippi Alabama Texas Massachusetts Kansas". write a php program that does following.

- Search for a word in variable states that ends in xai. store the word in element 0 of list named statelist.
- Search for a word in states that begins with k and ends in s perform a case sensitive comparison. [Note: passing regular expression parameter to method compile performs a case insensitive comparison] store this word. store this word in element 1 of statelist.
- Search for a word in states that begins with m and ends in s. store this word in element 2 of statelist
- Search for a word in states that ends in a. store this word in element 3 of the list.

=> program 9.php:

<?php

```
$states = 'Mississippi Alabama Texas Massachusetts  
Kansas';  
  
$statesArray = [];  
$states1 = explode(' ', $states);  
echo 'Original Array:' <br>;  
foreach ($states1 as $i => $value)  
    print("STATES[$i] = $value<br>");  
  
foreach ($states as $state) {  
    if (preg_match('/xai$/i', $state))  
        $statesArray[0] = ($state);  
}  
}
```

```
foreach ($status as $state) {  
    if (preg_match ('/^K.*\$$/', ($state)))  
        $statusArray [1] = ($state);  
}
```

```
foreach ($status as $state) {  
    if (preg_match ('/M.*\$$/', ($state)))  
        $statusArray [2] = ($state);  
}
```

```
foreach ($status as $state) {  
    if (preg_match ('/a\$/', ($state)))  
        $statusArray [3] = ($state);  
}
```

```
echo "<br><br> Resultant Array: <br>";  
foreach ($statusArray as $array => $value)  
    print ("STATES[$array] = $value <br>");
```

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Output:

Original Array

STATES[0] = Mississippi

STATES[1] = Alabama

STATES[2] = Texas

STATES[3] = Massachusetts

STATES[4] = Kansas

Resultant Array:

STATES[0] = Texas

STATES[1] = Kansas

STATES[2] = Massachusetts

STATES[3] = Alabama.

- 10) Write a PHP program to sort the student records which are stored in the database using selection sort
- Goto MySQL and the type;
- ```

create database weblab;
use weblab;
create table student (Usn varchar(10), name varchar(20),
address varchar(20));

```

### Program10.php

```

<!DOCTYPE html>
<html>
<body>
<style>
table, td, th
{
    border: 1px solid black;
    width: 33.33333333333333%; 
    text-align: center;
    border-collapse: collapse;
    background-color: lightblue;
}
table {margin: auto;}
</style>
<?php
$servername = "localhost";
$username = "root";
$password = "root";
$dbname = "weblab";
$a = [];

$conn = mysqli_connect($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 "<tr>";
echo "<th> USN </th> <th> NAME </th> <th> Address";
echo "</th></tr>";

if ($result->num_rows > 0)
{
    while ($row = $result->fetch_array())
    {
        echo "<tr>";
        echo "<td>". $row["usn"]. "</td>";
        echo "<td>". $row["name"]. "</td>";
        echo "<td>". $row["addr"]. "</td>";
        array_push ($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 = 1;
$d = 1;
$result = $conn->query("SELECT * FROM student");
if ($result->num_rows > 0) {
    while ($row = $result->fetch_assoc()) {
        for ($i=0; $i<$n; $i++) {
            if ($row["VSN"] == $a[$i]) {
                $c[$i] = $row["name"];
                $d[$i] = $row["addr"];
            }
        }
    }
    echo "<br>";
    echo "<center> AFTER SORTING </center>";
    echo "<table border='1'><tr>";
    echo "<th>VSN </th> <th>NAME </th> <th>Address";
    for ($i=0; $i<$n; $i++) {
        echo "<tr>";
        echo "<td>" . $a[$i] . "</td>";
        echo "<td>" . $c[$i] . "</td>";
        echo "<td>" . $d[$i] . "</td>";
    }
}

```

```

Echo <Table>;
{$conn->close();
?>
</body>
</html>

```

O/p.

### BEFORE SORTING

| USN        | NAME      | Address    |
|------------|-----------|------------|
| 4SUITCS019 | Niranjini | Bengaluru  |
| 4SUITCS008 | Darshan   | Mysuru     |
| 4SUITCS004 | Anusha    | Ujire      |
| 4SUITCS042 | Vandana   | Beltangady |

### AFTER SORTING

| USN        | NAME      | Address    |
|------------|-----------|------------|
| 4SUITCS004 | Anusha    | Ujire      |
| 4SUITCS008 | Darshan   | Mysuru     |
| 4SUITCS019 | Niranjini | Bengaluru  |
| 4SUITCS042 | Vandana   | Beltangady |