

## Experiment -01

SURYA GULI

Date \_\_\_\_\_

Page \_\_\_\_\_

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>

<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>

<td><input type="button" value="9" onclick="calculator.display.value = '9'"></td>

<tr>

<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>

<td><input type="button" value="9" onclick="calculator.display.value = '9'"></td>

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

<tr>

<td>

<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 = '1'"></td>

<tr>

<td>

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

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

<tr>

<table>

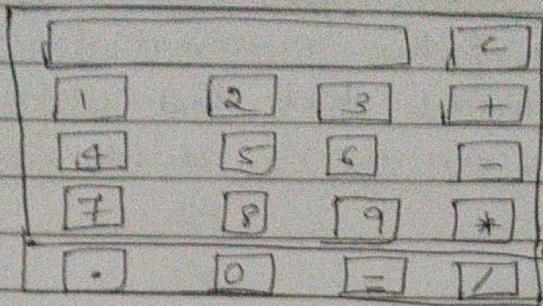
<form>

<body>

<center>

<html>

Output :-



Test Cases :-

Test NO	Input Parameters	Expected Output	Obtained output	Remarks
1	value1=50.56 Value2=24.39	A = 74.95 S = 26.17 M = 1233.1584 D = 0.07298	A = 74.95 S = 26.17 M = 1233.15 D = 0.07	PASS
2	value1=0 Value2=-45	A = 45 S = -45 M = 0 D = 0	A = 45 S = -45 M = 0 D = 0	PASS
3	value1=45 Value2=0	A=45 S=-45 M=0 D=infinity	A=45 S=45 M=0 D=infinity	PASS
4	value1=abc Value2=23	ENTER VALID NUMBER	ENTER VALID NUMBER	PASS
5	value1=50 Value2=xyz	ENTER VALID NUMBER	ENTER VALID NUMBER	PASS

## Experiment -02

BURVAT Gold

Page No.

Page

- Q. 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('<tbl align="right"> Squares
                    and cubes of the numbers from 0 to 10</tbl>');
      document.write('<center><table width="30%" border="1" bgcolor="white">');
      document.write('<tr><th> Number <th> Square <th> Cube </tr>');
      for (var n=0; n<=10; n++)
      {
        document.write("<tr><td>" + n + "<td>" + n * n + "<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

Experiment - 03

Q. Write a JavaScript code that displays text "TEXT-GROWING" with increasing font size in the interval of 10ms in RED COLOR, when the font size reaches 50pt it displays "TEXT-SHRINKING" in BLUE color. Then the font size decreases to 5pt.

```

→ <!DOCTYPE html>
<html>
<body>
<p id = "myP1"> TEXT-GROWING </p>
<p id = "myP2"> TEXT-SHRINKING </p>
</body>
<script>
    // Global declarations
    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";
        }
        // Hide the paragraph "text-shrinking"
        document.getElementById("myP2").style =
            visibility = "hidden";
    }
    else
    {
    }

```

ClearInterval (myWait1);

myWait1 = SetInterval (ShrinkText1, 100);

//Now hide the 1st paragraph and display the  
Second paragraph.

document. getElementById ("myP1"). style. visibility =  
"hidden";

document. getElementById ("myP2"). style. fontsize =  
'1pt';

document. getElementById ("myP2"). style. visibility  
= "visible";

3

3

function ShrinkText1()

{

if (size > 5)

{

if Size = Size - 1;

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

3

3

Output :-

TEXT - GROWING

TEXT SHRINKING .

Experiment - 04

- 4) Develop & demonstrate a HTML5 file that includes Javascript script that uses functions for the following problems:
- Parameter : A string.
  - Output : The position in the String of the left-most vowel.
  - Parameter : A number
  - Output : 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;`

`}`

`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 in the entered
          string");
}
</script>
</body>
</html>

```

Output :-

Enter the Input

Reverse of 123456 is 654321

Prevent this page from creating additional dialogs

Enter the Input

The position of the left most vowel 3

Prevent this page from creating additional dialogs

## Test Cases:-

Test No:	Input Parameters	Expected output	obtained output	Results
1.	123	Reverse of 123 is 321	Reverse of 123 is 321	PASS
2.	CHANNASANDRA	The position of the left most vowel is 3	The position of the left most vowel is 3	PASS
3.	Sky	No vowel found in the entered string	No vowel found in entered string	PASS
4.	MNKTO	The position of the left most vowel is 5	The position of the left most vowel is 5	PASS.

## Experiment - 05

SURYA Gold

Date \_\_\_\_\_

Page \_\_\_\_\_

- 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. Take up sample data for 3 students. Create a CSS style sheet and use it to display the document.
- program 5 - XML

```
<!DOCTYPE html>
<html>
  <head>
    <title> STUDENTS DESCRIPTION </title>
  </head>
  <body>
    <h1> STUDENTS DESCRIPTION </h1>
    <ul>
      <li>
        <ul>
          <li> USN : 4SUI7CS001 </USN>
            <ul>
              <li> NAME : SANTHOSH </name>
              <li> COLLEGE : SDM IT </college>
              <li> BRANCH : Computer Science and Engineering </branch>
              <li> YEAR : 2017 </year>
              <li> E-mail : Santosh@gmail.com </email>
            </ul>
        </li>
        <li>
          <ul>
            <li> USN : 4SUI7CS002 </USN>
              <ul>
                <li> NAME : MANORANJAN </name>
                <li> COLLEGE : SDM IT </college>
                <li> BRANCH : Computer Science & Engineering </branch>
                <li> YEAR : 2017 </year>
                <li> E-mail : manoranjan@gmail.com </email>
              </ul>
        </li>
      </ul>
    </li>
  </ul>
</body>
```

<Student>

USN> USN : 450110009 </USN>

<name> ANITA'S CHEMICAL </name>

College> COLLEGE : STAFF </College>

Branch> BRANCH : Computer Science and Engineering  
</branch>

Year> YEAR : 2017 </Year>

Re-mail> E-mail : chetanagnait.com </e-mail>

<Student>

<Student>

<Intrn>

Program> CSS

Student &

display: block; margin-left: 10px; color: Gray;

}

USN &

display: block; margin-left: 10px; font-weight:  
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;

3

e-mail :-

display: block; margin-left: 20px; font-size: 14pt; color: Blue;

3

Output :-

#### STUDENT DESCRIPTION

USN : ASU17CS001

NAME : SANTHOSH

COLLEGE : SDMITS

BRANCH : Computer Science and Engineering

YEAR : 2017

E-Mail : Santhosh@gmail.com

USN : ASU17CS002

NAME : MANORAJAN

COLLEGE : SDMITS

BRANCH : Computer Science and Engineering

YEAR : 2017

E-mail : manorajan@gmail.com

USN : ASU17CS003

NAME : CHEETHAN

COLLEGE : SDMITS

BRANCH : Computer Science and Engineering

YEAR : 2017

E-mail : cheethan@gmail.com

Experiment - 06

- 6) Write a PHP program to keep track off the number of visitors visiting the web page and to display this count of visitors, with proper headings.

→ <?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

SURYA Gold

Date \_\_\_\_\_

Page \_\_\_\_\_

- 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>

</html>

Output :-

10: 44: 08 AM

Experiment - 10

- (e) 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));

→ <!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.

\$con = 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='2'>";
```

```
<tr>";
```

```
<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()) {
```

```
<tr>";
```

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

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

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

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

```
}
```

```
g
```

```
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[$j] > $a[$pos])
            $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["usn"] == $a[$i]) {
            $c[$i] = $row["name"];
            $d[$i] = $row["addr"];
        }
    }
}

```

```

echo "<br>";
echo "<center> AFTER SORTING </center>";
echo "<table border='1'>";
echo "<tr>";
echo "<th> USN </th> <th> NAME </th> <th>";
echo "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     |
|-------------|-----------|-------------|
| 4SUI17CS019 | Niranjini | Bengaluru   |
| 4SUI17CS008 | Darshan   | Mysuru      |
| 4SUI17CS004 | Anusha    | Ujire       |
| 4SUI17CS042 | Vandana   | Belthangady |

AFTER SORTING

| USN         | NAME      | Address     |
|-------------|-----------|-------------|
| 4SUI17CS004 | Anusha    | Ujire       |
| 4SUI17CS008 | Darshan   | Mysuru      |
| 4SUI17CS019 | Niranjini | Bengaluru   |
| 4SUI17CS042 | Vandana   | Belthangady |