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i) write

EXPERIMENT - I

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="Nyle.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>
```

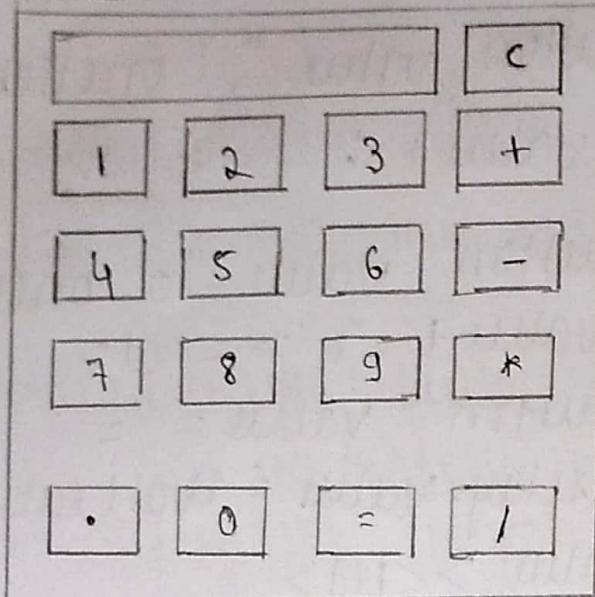
```

<td><input type="button" value="3" onclick="calculator
    .display.value += '3'"></td>
<td><input type="button" value="4" onclick="calculator
    .display.value += '4'"></td>
</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="-" 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>

```

```
<h1>
<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 += '1'"> </td>
</tr>
<tr>
<td><input type="button" value = ".," onclick =
"calculator.display.value += '.'"> </td>
</tr>
</table>
</form>
</body>
</html>
</html>
```

Output:



Test cases

Test No	Input Parameters	Expected Output	Obtained Output	Remarks
1	value1=50.56 value2=24.39	Addition - 74.95 Subtract = 26.17 Multiplication = 1233.15 Division = 2.07280	Addition - 74.95 Subtract = 26.17 Multiplication = 1233.15 Division = 2.0728	PASS
2	value1=0 value2=45	Addition = 45 Subtract = -45 Multiplication = 0 Division = 0	Addition = 45 Subtract = -45 Multiplication = 0 Division = 0	PASS
3	value1=45 value2=0	Addition = 45 Subtract = 45 Multiplication = 0 Division = infinity	Addition = 45 Subtract = 45 Multiplication = 0 Division = infinity	PASS
4	value1=abc value2=23	Add Enter valid Num Enter valid Num	Enter valid Num Enter valid Num	PASS
5	value1=50 value2=xyz	Enter valid Num	Enter valid Num	PASS

2) write a java

EXPERIMENT - 2

2) write a javascript that calculates the square & cube of the numbers from 0 to 10 and outputs HTML table that displays the resulting value in an HTML table format.

```

<html>
<head>
<script>
document.write('<h1 align="right">square & cube
of the numbers from 0 to 10</h1>');
document.write('<center><table width="30%">
border="1" "background="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 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 - 3

- 3) Write a JS code that displays text "TEXT - GROWING" with increasing font size in the interval of 100ms in RED COLOR, when the font size reaches 50 it displays "TEXT shrinking" in blue color. Then the font size decreases down to 5pt.

```

<!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 myWait = setInterval(growText, 100);
function growText()
{
    if (size < 50)
    {
        size = size + 1;
        document.getElementById("myP1").style.fontSize =
            (size + 'pt');
        document.getElementById("myP1").style.color =
            "red";
    }
    else
        clearInterval(myWait);
}

```

```

myWait1 = setInterval(shrinkText1, 100);
document.getElementById("myP1").style.visibility = "hidden";
document.getElementById("myP1").style.fontsize = "1pt";
document.getElementById("myP2").style.visibility = "visi
    }
}

function shrinkText1()
{
    if (time > 5)
    {
        time = time - 1;
        document.getElementById("myP2").style.fontSize =
            (time + 'pt');
    }
}

```

O/P

TEXT - GROWING

TEXT SHRINKING

EXPERIMENT - 4

- 1) Develop and demonstrate a HTML file that includes JavaScript that uses functions for the following problem:
- 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 N7 = prompt("Enter the input", " ");
if (!isNaN(N7))
{
    var num, rev = 0, remainder;
    num = parseInt(N7);
    while (num != 0)
    {
        remainder = num % 10;
        num = parseInt(num);
        rev = rev * 10 + remainder;
    }
    alert("Reverse of " + N7 + " is " + rev);
}

```

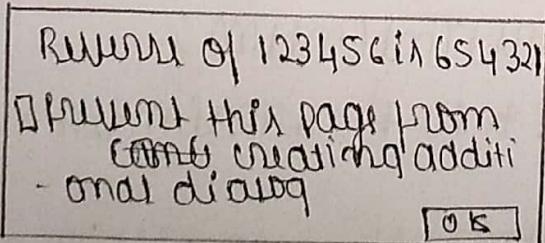
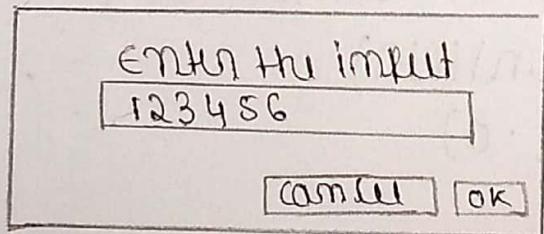
```

var
{
    str = str + String.fromCharCode(i);
}
for(var i=0; i<str.length; i++)
{
    var ch = str.charAt(i);
    if(ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' ||
       ch == '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
ChennaiAndhra

[cancel] [OK]

The position of the left most vowel is 3
 Prevent this page from
requesting additional dialogs

[OK]

Test Cases:

| TEST NO | INPUT PARAMETER | EXPECTED OUTPUT | OBTAINED OUTPUT | REMARKS |
|---------|-----------------|---|---|---------|
| 1 | 123 | Return of 123 in
321 | Return of 123 in
321 | PASS |
| 2 | CHANNASA - NDRA | The position of the
left vowel is 3, | The position of the
left vowel is 3, | PASS |
| 3 | SKY | No vowel found
in the entry | No vowel found
in the entry | PASS |
| 4 | MNKTO | The positi ⁿ of the
left vowel is 5 | The positi ⁿ of the
left vowel is 5 | PASS |

EXPERIMENT - 5

- s) Design an XML document to store "informal" about a student in an engineering college affiliated to VTU. The information must include USN, Name & Name of the college, Branch, year of joining & emailid 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>
<body>
  <student>
    <student>
      <USN>USN: 4SUI7CS001</USN>
      <name>NAME: SANTHOSH</name>
      <college>COLLEGE: SDMITS</college>
      <branch>BRANCH: COMPUTER SCIENCE & ENGINEERING</branch>
      <year>YEAR : 2017</year>
      <e-mail>E-mail: sam@gmail.com</e-mail>
    </student>
    <student>
      <USN>USN: 4SUI7CS002</USN>
      <name>NAME: MANU</name>
      <college>COLLEGE: SDMITS</college>
      <branch>BRANCH: COMPUTER SCIENCE & ENGINEERING</branch>
      <year>YEAR : 2017</year>
      <e-mail>E-mail: manu@gmail.com</e-mail>
    </student>
  </body>

```

```

<student>
  <usn> USN : 4SUI7CS003 </usn>
  <name> NAME: SHALINI </name>
  <college> COLLEGE: SDMIT </college>
  <branch> BRANCH: COMPUTER ENGg.
  <year> YEAR: 2017
  <e-mail> E-mail: Shal@gmail.com
</student>
</student>
</html>

```

Program s.css

student

```

{
  display: block; margin-top: 10px;
  color: navy;
}

```

USN

```

{
  display: block; margin-left: 10px; font-size: 14pt;
  color: blue;
}

```

college

```

{
  display: block; margin-left: 20px; font-size: 12pt;
  color: maroon;
}

```

name

```

{
  display: block; margin-left: 20px; font-size: 14pt;
  color: blue;
}

```

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

USN: 4SUITCS001

Name: SANTOSH

COLLEGE: SDMITS

BRANCH: Computer Engg

YEAR: 2017

E-mail: sam@gmail.com

USN: 4SUITCS002

Name: manu

COLLEGE: SDMITS

BRANCH: Computer Engg

YEAR: 2017

E-mail: manu@gmail.com

USN: 4SUITCS003

Name: SHALINI

COLLEGE: SDMITS

BRANCH: Computer Engg

YEAR: 2017

E-mail: shal@gmail.com

EXPERIMENT-6

- 1) write a PHP program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper heading.

<?php

```

    print "<h3> REFRESH PAGE </h3>";
    $name = "counter.txt";
    $file = fopen($name, "r");
    $hit = fscanf($file, "%d");
    fclose($file);
    $hit[0]++;
    $file = fopen($name, "w");
    fprintf($file, "%d", $hit[0]);
    fclose($file);
    print "Total no of visitors ". $hit[0];
    ?>
  
```

Output

REFRESH PAGE

TOTAL number of visitors: 10

EXPERIMENT - 9

- Q) write a PHP program named States.php that declares a variable \$States with value "MISSISSIPPI Alabama TELAR MASSACHUSETT KANAL". write a PHP pgm that does the following:
- Search for a word in variable \$States that ends in 'as'. Store this word in element 0 of a LIST named \$STATELIST.
 - Search for a word in \$States that begins with 'K' & ends in 's'. Perform a case-insensitive comparison. Store this word in element 1 of \$STATELIST.
 - Search for a word in \$States that begins with 'M' & ends in 's'. Store this word in element 2.
 - Search for a word in \$States that ends in 'a'. Store this word in element 3 of the LIST.

$\hat{=}$ <?php

```

$States = "MISSISSIPPI Alabama TELAR MASSACHUSETT KANAL";
$statesArray = [];
$states1 = explode(' ', $States);
echo "Original Array: <br>";
foreach ($states1 as $i => $value)
    print("STATES[$i] = $value <br>");
```

```

foreach ($NAME1 or $NAME)
{
  if (preg-match ('/x@\$1', ($NAME)))
    $NAMEARRAY[0] = ($NAME);
}

foreach ($NAME1 or $STATE)
{
  if (preg-match ('/A K.*\$1', ($STATE)))
    $NAMEARRAY[1] = ($NAME);
}

foreach ($NAME1 or $NAME)
{
  if (preg-match ('/A M.*\$1', ($NAME)))
    $NAMEARRAY[2] = ($NAME);
}

foreach ($NAME1 or $NAME)
{
  if (preg-match ('/a\$1', ($NAME)))
    $NAMEARRAY[3] = ($NAME);
}

Who "<br><br>Resultant Array : <br>";
foreach ($NAMEARRAY or $array => $value)
  print ("STATES[$array] = $value <br> ");
?>

```

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

EXPERIMENT-10

10) write a PHP program to sort the student records which are stored in the database using MySQL SORT

Connect MySQL & then type

use database weblab;

use weblab;

CREATE TABLE Student (USN VARCHAR(10), NAME VARCHAR(10),
ADDRESS VARCHAR(20));

Program 10.php

```
<!DOCTYPE html>
<html>
  <body>
    <h1>
      table, td, th
    {
      border: 1px solid black;
      width: 33.33333333333333%;
      text-align: center;
      border-collapse: collapse;
      background-color: lightblue;
    }
    table
    {
      margin: auto;
    }
  </h1>
</html>
```

<?php

```

$username = "localhost";
$username = "root";
$password = "root";
$dbname = "weblab";
$a = [];

$conn = mysqli_connect($username, $username
    , $password, $dbname);

if ($conn->connect_error)
    die("Connection failed: ". $conn->connect_error);

$sql = "SELECT * FROM student";
$result = $conn->query($sql)

echo "<html>";
echo "<center> BEFORE SORTING </center> ";
echo "<table border='2'>";
echo "<tr>";
echo "<th>USN </th><th>NAME </th><th>
    Address</th></th></tr>";

if ($result->num_rows > 0)
{
    while ($row = $result->fetch_assoc())
    {
        echo "<tr>";
        echo "<td>";
        echo "<td>". $row["usn"]. "</td>";
        echo "<td>". $row["name"]. "</td>";
        echo "<td>". $row["addr"]. "</td></tr>";
    }
}

```

III

```

who "Table is Empty";
who "<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)
    {
        $tmp = $a[$i];
        $a[$i] = $a[$pos];
        $a[$pos] = $tmp;
    }
}
$c = [];
$d = [];
$result = $conn->query($SQL);
if ($result->num_rows > 0)
{
    while ($row = $result->fetch_assoc())
    {
        for ($i=0 ; $i < $n ; $i++)
        {
    }
}

```

```

if ($now["USN"] == $a[$i])
{
    $c[$i] = $now["name"];
    $d[$i] = $now["addr"];
}
}
}
}
}

who "<br>";
who "<center>AFTER SORTING </center>";
who "<table border='1'>";
for($i=0;$i<$n;$i++)
{
    who "<tr>";
    who "<td>".$a[$i]."</td>";
    who "<td>".$c[$i]."</td>";
    who "<td>".$d[$i]."</td></tr>";
}
$comm->close();
?>
</body>
</html>

```

BEFORE SORTING

| USN | NAME | Address |
|--------|-------|---------|
| 4SU019 | Niru | Bengal |
| 4SU008 | Darth | Mysuru |
| 4SU004 | Anu | Mysuru |
| 4SU042 | Vandu | Bellary |

AFTER SORTING

| USN | NAME | Address |
|--------|-------|---------|
| 4SU004 | Anu | Mysuru |
| 4SU008 | Darth | Mysuru |
| 4SU019 | Niram | Bengal |
| 4SU042 | Vandu | Bellary |

EXPERIMENT - 7

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>
```

Output

10:44:08 AM.