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4SU17CS046
17CSL77

Program 1

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" 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>
   <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>
```


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```
<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="*" ></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="val(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>
```


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16 Write a javascript that calculates the squares and cubes of the numbers from 0 to 10 and outputs HTML text that displays that resulting values in an HTML table format

```
<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"
                bgcolor = "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>
```

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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

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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

program3.html

```
<!DOCTYPE html>
<html>
<body>
<p id="myp1">TEXT-GROWING.</p>
<p id="myp2">TEXTSHRINKING"</p></body>
<script>
//Global declarations
var size=10;
var i=0;
var myinit1=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.getElement
.tBId("myp2").style.visibility="hidden";
}
```


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```
else
{
clearInterval(mytimer1);
mytimer1 = setInterval(ShrinkText1, 100);
// Now hide the 1st paragraph & display the second paragraph
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');
```

output:

TEXT-GROWING

TEXT SHRINKING

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Develop and demonstrate a HTML5 file that includes JavaScript script that uses function for the following problems:

a) Parameter : A string
b) Output : The position in the string of the leftmost vowel
c) Parameter : A number
d) Output : The number with its digits in the reverse

```
<!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;
  }
```


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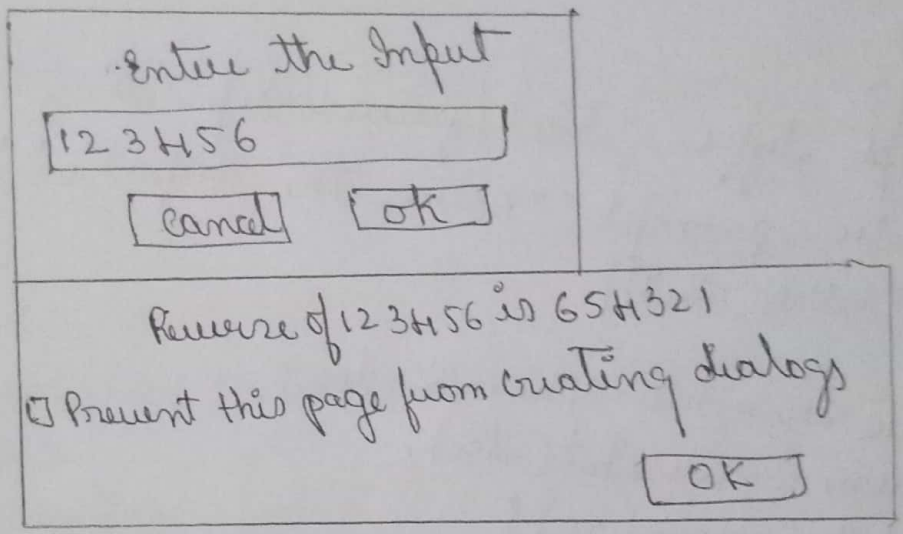
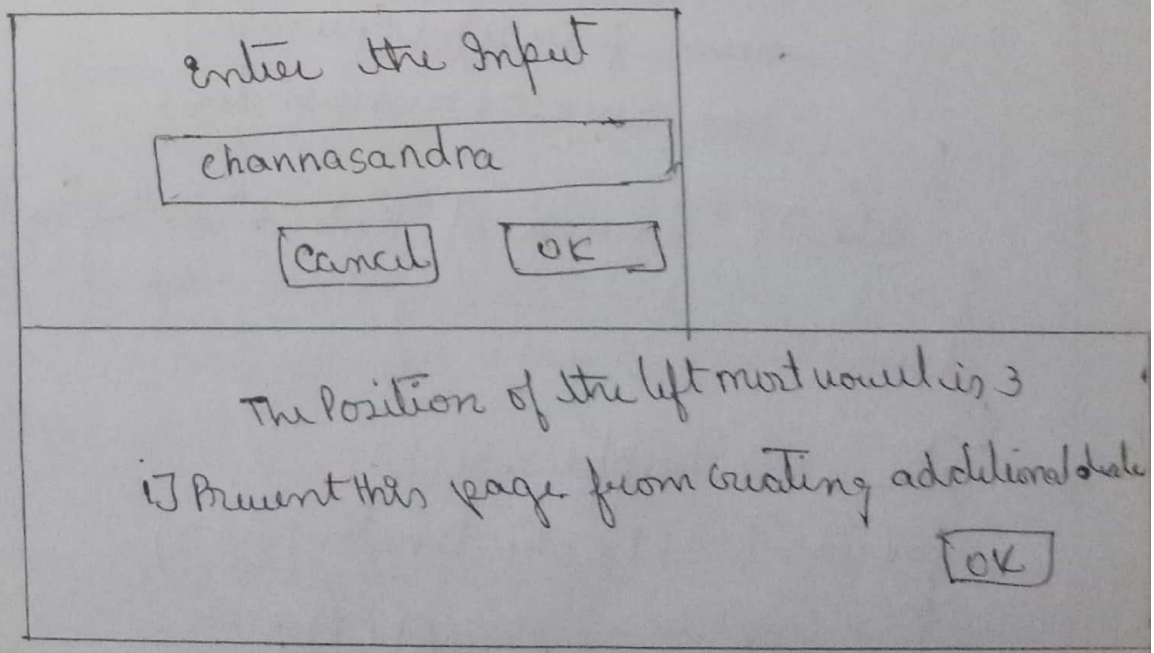
```
if(i<str.length)
    alert("The position of the left most vowel is"+(i+1));
else
    alert("No vowel found in the entered string");
}
</script>
</body>
</html>
```

Output :-





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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. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.

Program5.xml

```
<?xml-stylesheet type="text/css" href="5.css"?>
<!DOCTYPE HTML>
<html>
  <head>
    <h1>STUDENTS DESCRIPTION</h1>
  </head>
  <students>
    <student>
      <USN>USN : 4SU17CS001</USN>
      <name>NANE : SANTHUSH</name>
      <college>COLLEGE: SOMIT</college>
      <branch>BRANCH : CSE</branch>
      <year>YEAR : 2017</year>
      <e-mail>E-mail : san@gmail.com</e-mail>
    </student>
    <student>
      <USN>USN: 4SU17CS002</USN>
      <name>NAME : MANORANJAN</name>
      <college>COLLEGE : SOMIT</college>
```


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```
<branch> BRANCH : CSE </branch>
<year> YEAR : 2017 </year>
<e-mail> E-Mail : manor@gmail.com </e-mail>
</student>
<student>
<USN> USN : 4SU17CS003 </USN>
<name> Name : CHETHAN </name>
<college> COLLEGE : SDMIT </college>
<branch> BRANCH : CSE </branch>
<year> YEAR : 2017 </year>
<e-mail> E-mail : chethan@gmail.com </e-mail>
</student>
</students>
```

Program 5. CSS.

```
student{
    display: block; margin-top: 10px; color: Navy;
    }
USN{
    display: block; margin-left: 20px; 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
    }
```


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```
year{
    display:block; margin-left:20px; font-size:14pt color:
                                                    Gree
    }
e-mail{
    display:block; margin-left:20px; font-size:12pt; colo: Blu
}
```

Output:

STUDENT DESCRIPTION

USN : HSU17CS001
NAME : SANTHOSH
COLLEGE : SDMIT
BRANCH : CSE
YEAR : 2017
E-Mail : sant@gmail.com.

USN : HSU17CS002
NAME : MANORAJAN
COLLEGE : SDMIT
BRANCH : CSG
YEAR : 2017
E-mail : manor@gamail.com.

USN : HSU17CS003
NAME : CHETHAN
COLLEGE : SDMIT
BRANCH : CSE
YEAR : 2017.
E-mail : chethan@gmail.com

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6. 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.

Program6.php.

```
<?php
    print"<h3>REFRESH PAGE</h3>";
    $name = "Counter.text";
    $file = fopen($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.

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

program7.php

```
<!DOCTYPE HTML>
<html>
<head>
  <meta http-equiv="refresh" content="1" />
  <style>
    p{
      color: white;
      font-size: 90px;
      position: absolute;
      top: 50%;
      lft: 50%;
      transform: translate(-50%, -50%);
    }
    body{ background-color: black;}
  </style>
  <p><?php echo date("h:i:s A"); ?></p>
</head>
```

Output

10:HH:08 AM.

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

-Goto Mysql & then 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%. ;
        text-align : center;
      border-collapse : collapse;
      background-color : light blue;
      }
      table {margin : auto ; }
    </style>
    <?php
        $servername = "localhost";
        $username = "root";
```


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```
$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";
// Performs 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>
    </tr>";
if ($result->num_rows > 0)
{
// output data of each row & fetches a result row as an
associative array.
while ($row = $result->fetch_assoc()) {
    echo "<tr>";
    echo "<td>". $row["usn"]. "</td>";
```


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```
echo "<td>". $row["name"]. "</td>";
echo "<td>". $row["adder"]. "</td></tr>";
array_push($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 = [];
$d = [];
$result = $conn->query($sql);
if($result->num_rows>0)
{
```


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```
while($row = $result -> fetch_assoc()) {
    for($i=0; $i<$n; $i++) {
        if($row["USN"] == $a[$i]) {
            $c[$i] = $row["name"];
            $d[$i] = $row["addr"];
        }
    }
}
}
echo "<br>";
echo "<center> After Sorting </center>";
echo "<table border='2'>";
echo "<tr>";
echo "<th>USN</th><th>NAME</th><th>Address</th></tr>";
for($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>
```


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Output:

Before Sorting

USN	NAME	Address
4SU17CS019	Niranjini	Bengaluru
4SU17CS008	Darshan	Mysuru
4SU17CS004	Anusha	Ujire
4SU17CS042	vandana	Bellthangady

After Sorting

USN	NAME	Address
4SU17CS004	Anusha	ujire
4SU17CS008	Darshan	Mysore
4SU17CS019	Niranjini	Bengaluru
4SU17CS042	vandana	Bellthangady

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