# WEB TECHNOLOGY LABORATORY WITH MINI PROJECT (15CSL77)

1. Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference and quotient.

### Program 1 - JavaScript : Simple calculator

```
<!DOCTYPE HTML>
<html>
 <head>
        <style>
                        table, td, th
                                 border: 1px solid black;
                                 width: 33%;
                                 text-align: center;
                                 background-color: DarkGray;
                                 border-collapse:collapse;
table { margin: auto; }
                        input { text-align:right; }
        </style>
```

```
<script type="text/javascript">
        function calc(clicked_id)
             var val1 = parseFloat(document.getElementById("value1").value);
             var val2 = parseFloat(document.getElementById("value2").value);
             if(isNaN(val1)||isNaN(val2))
              alert("ENTER VALID NUMBER");
                       else if(clicked_id=="add")
                               document.getElementById("answer").value=val1+val2;
else if(clicked_id=="sub")
                               document.getElementById("answer").value=val1-val2;
                       else if(clicked_id=="mul")
                               document.getElementById("answer").value=val1*val2;
```

```
else if(clicked_id=="div")
                document.getElementById("answer").value=val1/val2;
         function cls()
             value1.value=" ";
             value2.value=" ";
             answer.value="";
    </script>
 </head>
 <body>
```

```
 SIMPLE CALCULATOR 
  value1<input type="text" id="value1" value=" "/> 
    value2
     <input type="button" value="Addition" id = "add" onclick="calc(this.id)"/>
       <input type="button" value="Subtraction" id = "sub" onclick="calc(this.id)"/>
      <input type="button" value="Multiplication" id = "mul" onclick="calc(this.id)"/>
       <input type="button" value="Division" id ="div" onclick="calc(this.id)"/>
    Answer: <input type="text" id="answer" value="" disabled/>
   <input type="button" value="CLEAR ALL" onclick="cls()"/>
</body>
</html>
```

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## **Program 1 - JavaScript : Simple calculator – OUTPUT:**

SIMPLE CALCULATOR					
valuel	25	value2	25		
Addition	Subtraction	Multiplication	Division		
Answer:	50	C	LEAR ALL		

SIMPLE CALCULATOR					
valuel		25	value2	25	
Addition	Subtraction		Multiplication	Division	
Answer:		0	С	LEAR ALL	

SIMPLE CALCULATOR					
valuel	25	value2	0		
Addition	Subtraction	Multiplication	Division		
Answer:	Infinity	C	LEAR ALL		

2. 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.

## Program 2 - JavaScript : Calculate squares and cubes of the numbers from 0 to 10

```
<!DOCTYPE HTML>
<html>
        <head>
                <style>
                        table,tr, td
                        border: solid black;
                                 width: 33%;
                                 text-align: center;
                                 border-collapse: collapse;
         background-color:lightblue;
                        table { margin: auto; }
                </style>
```

```
<script>
```

```
document.write( ''  NUMBERS FROM 0 TO 10
               WITH THEIR SQUARES AND CUBES '');
     document.write( '' Number Square Cube
               '');
    for(var n=0; n<=10; n++)
          document.write( "" + n + "" + n*n + ""
                     + n*n*n + "" );
     document.write( "" );
</script>
```

</html>

</head>

## Program 2 - JavaScript : Calculate squares and cubes of the numbers from 0 to 10 - 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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3. Write a JavaScript code that displays text "TEXT-GR OWING" 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 3 - JavaScript : TEXT-GROWING and TEXT-SHRINKING**

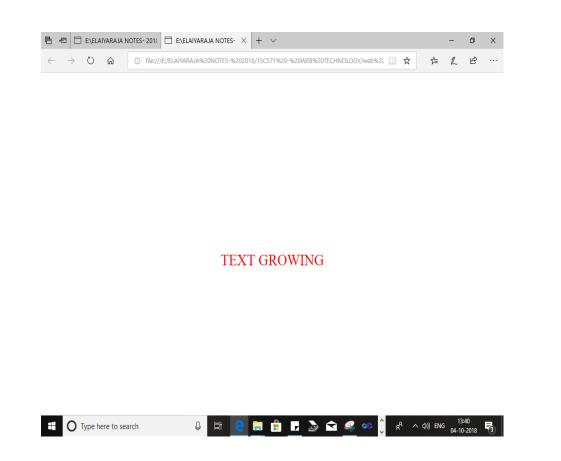
```
<!DOCTYPE HTML>
<html>
<head>
 <style>
       position: absolute;
   top: 50%;
   left: 50%;
   transform: translate(-50%, -50%);
 </style>
</head>
<body>
<script>
    var var1 = setInterval(inTimer, 1000);
       var fs = 5;
       var ids = document.getElementById("demo");
```

```
function inTimer()
                         ids.innerHTML = 'TEXT GROWING';
        ids.setAttribute('style', "font-size: " + fs + "px; color: red");
                fs += 5;
        if(fs >= 50)
        clearInterval(var1);
                var2 = setInterval(deTimer, 1000);
```

```
function deTimer()
fs -= 5;
        ids.innerHTML = 'TEXT SHRINKING';
                ids.setAttribute('style', "font-size: " + fs + "px; color: blue");
        if(fs === 5)
clearInterval(var2);
        </script>
</body>
</html>
```

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## Program 3 - JavaScript : TEXT-GROWING and TEXT-SHRINKING OUTPUT





TEXT SHRINKING



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4. Develop and demonstrate a HTML5 file that includes JavaScript script 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 4 - HTML5 and JavaScript:**

- a) position in the string of the left-most vowel
- b) 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);
```

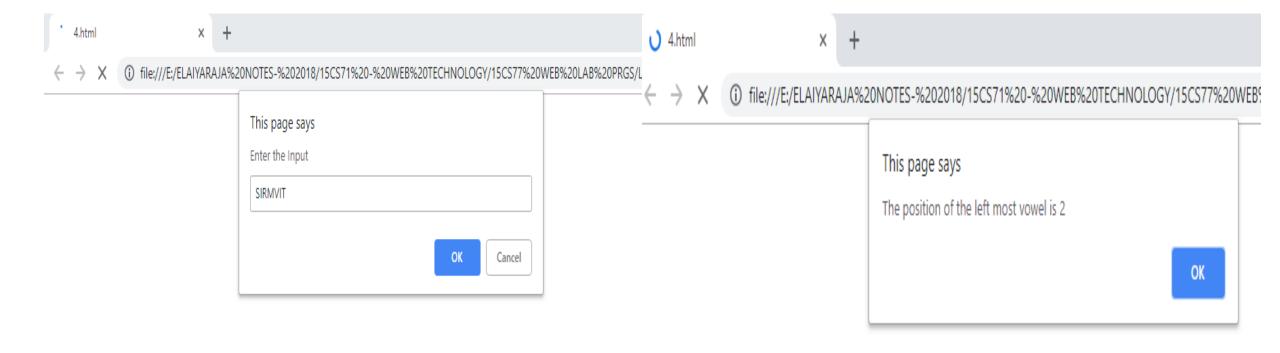
```
while(num!=0) {
                 remainder = num%10;
                  num = parseInt(num/10);
                  rev = rev * 10 + remainder;
                 alert("Reverse of "+str+" is "+rev);
        else
                 str = str.toUpperCase();
                 for(var i = 0; i < str.length; i++) {
                         var chr = str.charAt(i);
                         if(chr == 'A' || chr == 'E' || chr == 'I' || chr == 'O' || chr == 'U')break;
```

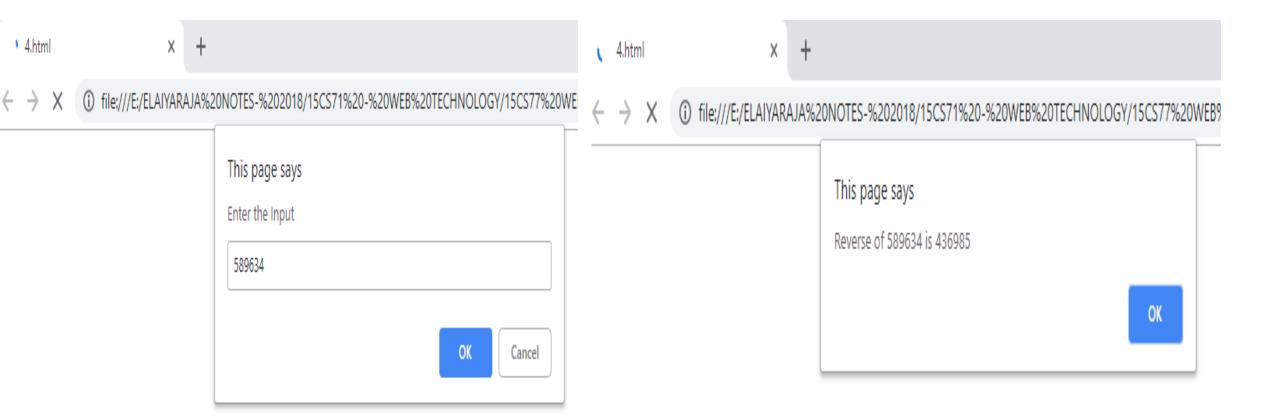
```
if( i < str.length )</pre>
                           alert("The position of the left most vowel is "+(i+1));
                  else
                           alert("No vowel found in the entered string");
         </script>
</body>
</html>
```

### **Program 4 - HTML5 and JavaScript:**

- a) position in the string of the left-most vowel
- b) number with its digits in the reverse order

#### **OUTPUT:**





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.

Program 5 - XML document to store information about a student.

```
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:14pt; color:Green;
e-mail
        display:block; margin-left:20px;font-size:12pt; color:Blue;
```

#### // SAVE CSS FILE

```
<?xml-stylesheet type="text/css" href="5.css" ?> // REFERENCE CSS FILE
<!DOCTYPE HTML>
<html>
<head>
<h1> STUDENTS DETAILS </h1>
</head>
<students>
<student>
      <USN>USN : 1MV16CS021</USN>
       <name>NAME : VENKAT</name>
      <college>COLLEGE: SIRMVIT</college>
       <branch>BRANCH : Computer Science and Engineering/branch>
      <year>YEAR : 2016</year>
      <e-mail>E-Mail : venkat@gmail.com</e-mail>
                                   ELAIYARAJA P 15CSL77
```

#### <student>

**<USN>USN** : 1MV11IS031</USN>

<name>NAME : ADITYA</name>

<college>COLLEGE: SIRMVIT </college>

<branch>BRANCH : Information Science and Engineering/branch>

<year>YEAR : 2011</year>

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

#### </student>

```
<student>
```

**<USN>USN** : 1MV15ME044</USN>

<name>NAME : DEVARAJA</name>

<college>COLLEGE: SIRMVIT </college>

<branch>BRANCH : Mechanical and Engineering</branch>

<year>YEAR : 2015</year>

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

</student>

</students>

</html>

## Program 5 - XML document to store information about a student OUTPUT:

