

K.S. INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SUBJECT NAME: WEB TECHNOLOGY LABORATORY WITH MINI
PROJECT

SUB CODE: 17CSL77

GUIDELINES:

1. All students are informed to WRITE the OBSERVATION IN A4 SHEETS only and Scan the same and send it as a PDF File
2. Write the Observation by mentioning the Experiment No, Date, Code, Output in the given format (See from Page 2 to Page 17)
3. Each Experiments must be sent as a separate file

For Example:

1KS17CS001_Experiment_No.1.pdf

1KS17CS001_Experiment_No.2.pdf

1KS17CS001_Experiment_No.3.pdf

1KS17CS001_Experiment_No.4(a).pdf

1KS17CS001_Experiment_No.4(b).pdf

1KS17CS001_Experiment_No.5.pdf

4. **Attach** all the above **pdf files** in the **same email** and send the same to below email address:

ksitwebmini2021@gmail.com

And give the subject as For Example:

1KS17CS001_OBSERVATIONS

5. Note the Deadline for submission of the observation is

19.10.2020 (Monday)

Course in-Charge
(ADITYA PAI H)

EXPERIMENT NO. 1

Date: 15.09.2020

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

Code:-

```
<!DOCTYPE html>

<html>

<head>

<title>Calculator – JavaScript and HTML</title>

<style>

#calc-contain{

position: relative;

width: 400px;

border: 2px solid black;

border-radius: 12px;

margin: 0px auto;

padding: 20px 20px 100px 20px;

}

#agh{

position: relative;

float: right;

margin-top: 15px;

color: red;

}

#agh p{

font-size: 20px;

font-weight: 900;

color: red;

}

input[type=button] {

background: lightGray;

width: 20%;

font-size: 20px;
```

```
,

font-weight: 900;
border-radius: 7px;
margin-left: 13px;
margin-top: 10px;
}

input[type=button]:active {
background-color: #3e8e41;
box-shadow: 0 5px #666;
transform: translateY(4px);
}

input[type=button]:hover {
background-color: #003300;
color: white;
}

input[type = text] {
position: relative;
display: block;
width: 90%;
margin: 5px auto;
font-size: 20px;
padding: 10px;
box-shadow: 4px 0px 12px black inset;
}

</style>
</head>
<body>
<div id='calc-contain'>
<form name="calculator">
<input type="text" name="answer" />
<br>
```

```

<input type="button" value=" 1 " onclick="calculator.answer.value += '1'" />
<input type="button" value=" 2 " onclick="calculator.answer.value += '2'" />
<input type="button" value=" 3 " onclick="calculator.answer.value += '3'" />
<input type="button" value=" + " onclick="calculator.answer.value += '+'" />
<br/>

<input type="button" value=" 4 " onclick="calculator.answer.value += '4'" />
<input type="button" value=" 5 " onclick="calculator.answer.value += '5'" />
<input type="button" value=" 6 " onclick="calculator.answer.value += '6'" />
<input type="button" value=" - " onclick="calculator.answer.value += '-'" />
<br>

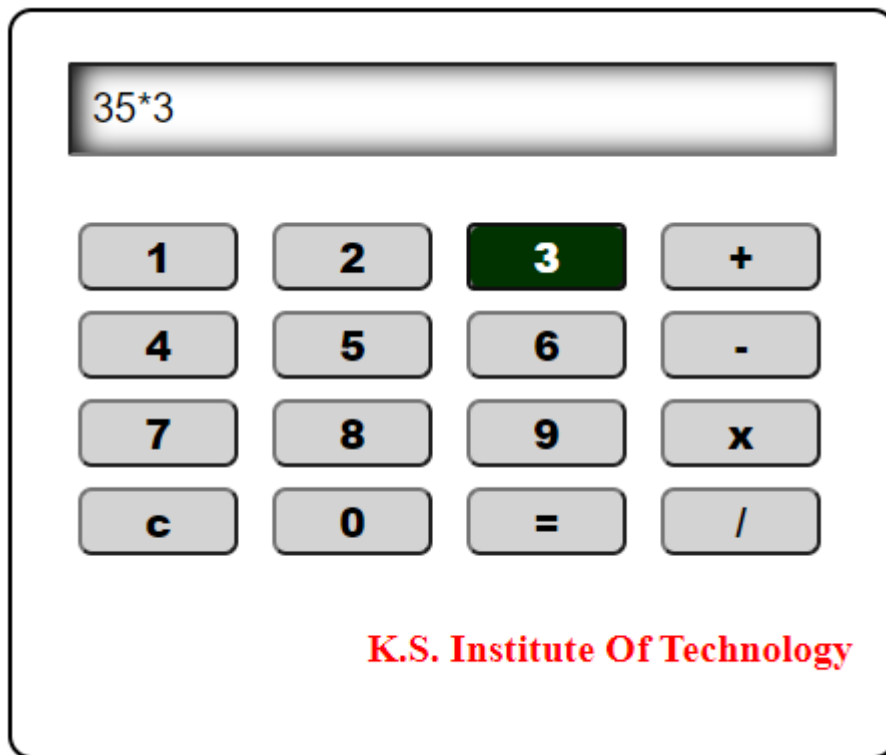
<input type="button" value=" 7 " onclick="calculator.answer.value += '7'" />
<input type="button" value=" 8 " onclick="calculator.answer.value += '8'" />
<input type="button" value=" 9 " onclick="calculator.answer.value += '9'" />
<input type="button" value=" x " onclick="calculator.answer.value += '*'" />
<br>

<input type="button" value=" c " onclick="calculator.answer.value = ''" />
<input type="button" value=" 0 " onclick="calculator.answer.value += '0'" />
<input type="button" value=" = " onclick="calculator.answer.value = eval(calculator.answer.value)" />
<input type="button" value=" / " onclick="calculator.answer.value += '/'" />
<br>

</form>
<div id="agh">
<p>K.S. Institute Of Technology</p>
</div>
</div>
</body>
</html>

```

Output:-



EXPERIMENT NO. 2

Date: 22.09.2020

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.

Code:-

```
<html>

<head>

<script>

document.write('<h1 align="center">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>
```

Output:-

Squares and Cubes of the numbers from 0 to 10

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 NO. 3

Date: 22.09.2020

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.

Code:-

```
<!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-shrinkinikng"

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("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');  
    document.getElementById("myP2").style.color = "blue";  
  }  
  else  
  {  
    clearInterval(myWait1);  
  }  
}  
  
</script>  
</html>
```

Output:-

TEXT-GROWING.

TEXT-SHRINKING

EXPERIMENT NO. 4 (a) & (b)

Date: 29.09.2020

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.

Code: - 4 (a)

```
<html>

<head><title>4A PROGRAM</title>

<SCRIPT>

function vow(st)

{

var pos;

pos=st.search(/[aeiouAEIOU]/);

if(pos<0)

alert("pattern not found\n");

else

alert("Position of the left most vowel is "+(pos+1));

}

</SCRIPT>

</head>

<body>

<FORM><p>Enter the text</p>

<input type="text" id="voweltext"/>

<input type="button" value="Click here" onclick="vow(voweltext.value);"/>

</FORM></body>

</html>
```

Output: - 4(a)

Enter the text

Enter the text

This page says

Position of the left most vowel is 2

Code: - 4 (b)

```
<html>
<title>Reverse Number</title>
<script>
function rev()
{
var n=prompt("Enter Number"," ");
n=parseInt(n);
var temp=0,rev=0;
while(n>0)
{
temp=n%10;
rev=rev*10+temp;
n=n/10;
n=parseInt(n);
}
document.write("The Reverse number is:",rev);
}
</script>
<body>
<form>
<input type="button" value="Enter No" onclick="rev()";>
</form>
</body>
</html>
```

Output: - 4(b)

Enter No

Enter No

This page says

Enter Number

1234

OK

Cancel

The Reverse number is:4321

EXPERIMENT NO. 5

Date: 14.10.2020

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.

Code: - (XML)

```
<?xml version="1.0" encoding="utf-8"?>

<!DOCTYPE student_information[

<!ELEMENT student_information (ad+)>

<!ELEMENT ad (usn,name,college,branch,year,email)>

<!ELEMENT usn (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT college (#PCDATA)>

<!ELEMENT branch (#PCDATA)>

<!ELEMENT year (#PCDATA)>

<!ELEMENT email (#PCDATA)> ]>


<?xml-stylesheet type="text/css" href="prog5.css"?>

<student_information>

<h1>First Student Information</h1>

<ad><label>USN:</label><usn>1KS17CS001</usn></ad>

<ad><label>NAME:</label><name>Aafreen</name></ad>

<ad><label>COLLEGE:</label><college>KSIT</college></ad>

<ad><label>BRANCH:</label><branch>CSE</branch></ad>

<ad><label>YEAR:</label><year>2020</year></ad>

<ad><label>EMAIL:</label><email>aafreen@gmail.com</email></ad>

<h1>Second Student Information</h1>

<ad><label>USN:</label><usn>1KS17CS002</usn></ad>

<ad><label>NAME:</label><name>Abishek</name></ad>

<ad><label>COLLEGE:</label><college>KSIT</college></ad>

<ad><label>BRANCH:</label><branch>CSE</branch></ad>

<ad><label>YEAR:</label><year>2020</year></ad>
```

<ad><label>EMAIL:</label><email>abishek@gmail.com</email></ad>
<h1>Third Student Information</h1>
<ad><label>USN:</label><usn>1KS17CS003</usn></ad>
<ad><label>NAME:</label><name>Akshatha</name></ad>
<ad><label>COLLEGE:</label><college>KSIT</college></ad>
<ad><label>BRANCH:</label><branch>CSE</branch></ad>
<ad><label>YEAR:</label><year>2020</year></ad>
<ad><label>EMAIL:</label><email>akshatha@gmail.com</email></ad>
</student_information>

Code: - (CSS)

```
ad{display:block;}
label{font-weight:bold;color:blue;}
usn{font-size:14pt;color:red;}
name{font-size:14pt;color:red;}
college{font-size:14pt;color:red;}
branch{font-size:14pt;color:red;}
year{font-size:14pt;color:red;}
email{font-size:14pt;color:red;}
```


Output:-

USN:1KS17CS001

NAME:Aafreen

COLLEGE:KSIT

BRANCH:CSE

YEAR:2020

EMAIL:aafreen@gmail.com

Second Student Information

USN:1KS17CS002

NAME:Abishek

COLLEGE:KSIT

BRANCH:CSE

YEAR:2020

EMAIL:abishek@gmail.com

Third Student Information

USN:1KS17CS003

NAME:Akshatha

COLLEGE:KSIT

BRANCH:CSE

YEAR:2020

EMAIL:akshatha@gmail.com