Exp: 1   Calculator Program using Javascript

Aim:-   With a Java Script to design a simple calculator to perform
         the following operators : Sum, product, difference and quatient

Program:-

```
<!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 ; }
        inpw & text-align : right; }
    </style>
    <script type = "text/javascript">
        function calc (clicked-id)
        {
            var val1 = parseFloat( document.getElement By Id ("value1").value);
            var val2 = parseFloat( document.getElement By Id ("value2").value);

            if (isNaN(val1)|| isNaN(val2))
                alert ("ENTER VALID NUMBER");
            else if(clicked-id = "add")
                document.getElement By Id ("answer").value = val1 + val2;
            else if (clicked-id = "sub")
                document.getElement By Id ("answer").value = val1-val2;
            else if (clicked-id = "mul")
                document.getElement By Id ("answer").value = val1 * val2;
            else if (clicked-id = "div")
                document.getElement By Id ("answer").value = val1/val2;

        }
```

```
            function cls(){
                value1.value = "0";
                value2.value = "0";
                answer.value = "";
            }
        </script>
    </head>
    <body>
        <table>
            <tr><th colspan ="4"> SIMPLE CALCULATOR</th></tr>
            <tr>
                <td>Value 1</td> <td><input typp="text" id ="value1" value ="0"/></td>
            </tr>
            <tr>
                <td> Value 2</td><td><input type = "text" id="value2" value ="0"/></td>
            </tr>
            <tr>
                <td><input type="button" id="add" value = "Addition" onclick="calc(this.id)"/></td>
                <td><input type = "button" id="sub" value = "Subtraction" onclick="calc(this.id)"/></td>
                <td><input type = "button" id="mul" value ="multiplication" onclick="calc(this.id)"/></td>
                <td><input type= "button" id ="div" value= "division" onclick = "calc(this.id)"/></td>
            </tr>
            <tr>
                <td> Answer:</td><td><input type ="text" id ="answer" disabled /> </td>
                <td colspan =2> <input type = "button" value="CLEAR ALL" onclick ="cls()"/></td>
            </tr>
        </table>
    </body>
</html>
```

Output:

SIMPLE CALCULATOR			
Value 1		Value 2	
Addition	Substraction	Multiplication	Division
Answer :		CLEAR ALL	

Conculation:

Program for calculator program is executed with HTML and JavaScript. Result is checked given different test cases and obtained the output successfully.

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Exp : 2   JavaScript to Calculate the squares and cubes of no number in HTML table format.

Aim : Write JavaScript that calculates the squares and cubes of no number from 0 to 10 and output HTML text that displays the resulting values in HTML table format.

Program :

```html
<!DOCTYPE HTML>
<html>
<head>
    <style>
        table, tr, td {
            border : solid block;
            width : 33 %;
            text-align : center;
            border-collapse : collapse;
            background-color : lightblue;
        }
        table { margin : auto; }
    </style>
    <script>
        document.write("<table><tr><th colspan=`3`) NUMBER FROM 0 to 10 WITH
        THEIR SQUARES AND CUBES</th></tr>");
        document.write(" <tr> <td> Number</td> <td> Square</td> <td> Cube</td></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>
```

7/12/20

Output:

NUMBER 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

Conclusion :

Program for finding the squares and cubes of numbers from 0 to 10 is executed using JavaScript. Result is displayed in HTML table format successfully.

Exp:3   Javascript code to grow & shrink the given text in given format

Aim: Write a JavaScript code that displays text `TEXT-GROWING' with increasing font size in the interval 100ms in RED COLOR, when the font size reaches 50pt it displays `TEXT-SHRINKING' in BLUE color. Then font size decreases to 5pt.

Program:

```html
<!DOCTYPE>
<html>
<head>
    <style>
        p {
            position: absolute;
            top: 50%;
            left: 50%;
            transform: translate(-50%, -50%);
        }
    </style>
</head>
<body>
    <p id = "demo"></p>
    <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.setAttribute('style', `font-size' + fs + 'px; color:blue');
            if (fs === 5) {
                clearInterval(var2);
            }
        }
    </script>
</body>
</html>
```

Output:

TEXT – GROWING

TEXT – SHRINKING

Conclusion:

Program to make the given text to grow and shrink is executed with HTML using JavaScript obtained the output successfully.

Date: 9/12/20

Exp: 4   Develop and demonstrate a HTMLS file with JavaScript to solve prescribed problems.

Aim: Develop and demonstrate a HTMLS file that includes JavaScript that uses functions 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 reverse order.

Program:

```
<!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>
```
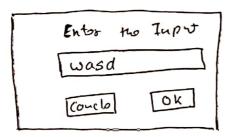
Output:

```
┌─────────────────────────────────┐
│      Enter the Input            │
│   ┌──────────────────────┐      │
│   │ 1234                 │      │
│   └──────────────────────┘      │
│  ┌────────┐    ┌────────┐       │
│  │ Cancle │    │  OK    │       │
│  └────────┘    └────────┘       │
└─────────────────────────────────┘
```

```
┌──────────────────────────────────────────────┐
│    Reverse of 1234 is 4321                    │
│  ☐ Prevent this page from creating additional dialogs
│                        ┌────────┐             │
│                        │  OK    │             │
│                        └────────┘             │
└──────────────────────────────────────────────┘
```

```
┌─────────────────────────────────┐
│    Enter the Input              │
│   ┌──────────────────────┐      │
│   │ wasd                 │      │
│   └──────────────────────┘      │
│  ┌────────┐    ┌────────┐       │
│  │ Cancle │    │  OK    │       │
│  └────────┘    └────────┘       │
└─────────────────────────────────┘
```

```
┌──────────────────────────────────────────────┐
│   The position of the leftmost vowel is 3     │
│  ☐ Prevent this page from creating additional dialogs
│                        ┌────────┐             │
│                        │  OK    │             │
│                        └────────┘             │
└──────────────────────────────────────────────┘
```

Conclusion :

Program to check the position of leftmost vowel in a given string and to reverse the given number is executed with HTML using JavaScript.

Result is checked by giving different test cases and obtained the output successfully.

Raghavendra Patel
1GD17CS034

Ⓑ

Exp:5 XML document to store information of a student and create a css stylesheet to display the document.

Aim: 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 display the document.

Program:

```
<? xml -stylesheet type = "text/css" href = "s.css" ?>
<!DOCTYPE HTML>
<html>
<head>
    <h1> STUDENTS DESCRIPTION </h1>
</head>
 <students>
     <student>
         <USN> USN: 1GD15CS001 </USN>
         <name> NAME: AJAY </name>
         <college> COLLEGE: GCEM </college>
         <branch> BRANCH: CSE </branch>
         <year> YEAR: 2019 </year>
         <e-mail> Email : ajay @gmail.com</email>
     </student>

     <student>
         <USN> USN: 1GD15CS002 </USN>
         <name> NAME: AKKUL </name>
         <college) COLLEGE: GCEM</college>
         <branch> BRANCH: CSE </branch>
         <year > YEAR: 2019 </year>
         <e-mail> Email: akkul@gmail.con </email>
     </student>

     <student>
         <USN> USN: 1GD13CS003 </USN>
         <name> NAME: AMAN </name>
         <college> COLLEGE: GCEM </college>
         <branch> BRANCH: CSE </branch>
         <year > YEAR: 2019 </year>
         <email> Email : aman@gmail.com </email>
     </student>
```

</studews>
</html>

5. CSS

```css
studew { display : block; margin-top : 10px; color : Navy ; }
USN { display : block; margin-left : 14px ; color, Blue; }
nove { display : block; margin-left : 14px; color; Maroon; }
brourch { display : block; margin-left 14px; color: Purple; }
year { display : block; margin left : 14 px; color : green; }
email { display : block; margin-left : 14 px; color : Blue; }
```

O/P

    STUDENTS DISCRIPTION
    USN : 16D1SCS001
    Nome : AJAY
    COLLEGE : GCEM
    BRANCH : CSE
    YEAR : 2019
    EMAIL : ajay@gmail.com

    USN : 16D1XS002
    NAME : AKKUL
    COLLEGE : GCEM
    BRANCH : CSE
    YEAR : 2019
    E-MAIL : akkul@gmail.com.

    USN : 16D1SCS003
    NAME : AMAN
    COLLEGE : GCEM
    BRANCH : CSE
    YEAR : 2019
    E-MAIL : aman@gmail.com.

Conclusion :
    Program for studew in XML and displaye using CSS is executed surrosfully
    and result is obtained .

! 11/12/20

Exp: 6   PHP program to find and display the number of visitors visiting the web page

Aim: 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 headings.

Program:

```php
<?php
    $file = `counts.txt'
    $count = strval(file_get_contents($file));
    file_put_contents($file, $count +1);
    echo "<center><h1> VISITOr COUNT </h1>";
    echo "<h3> You are Visitor number:": $count.</h3></center>";
?>
```

Output:

VISITOR COUNT

You are visitor number: 5

Conclusion:

Program to find and display the number of visitors visiting the web page is successfully executed using PHP and result is obtained.

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1GD17CS034
⑪

Exp : 7   PHP program to display the current time time of the server.

Aim : write a PHP program to display a digital clock which displays the current time of the server.

Program :

```
<!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: black; }
</style>
<p>
<?php
    echo date("h:i:s A"); ?>
?>
</p>
</head>
```

Output

10 : 44 : 08 AM

Conclusion :

    program to display the current time of the server is successfully executed using PHP result is obtained.