APOORVA.C
1SU17CS007

EXPERIMENT-01

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

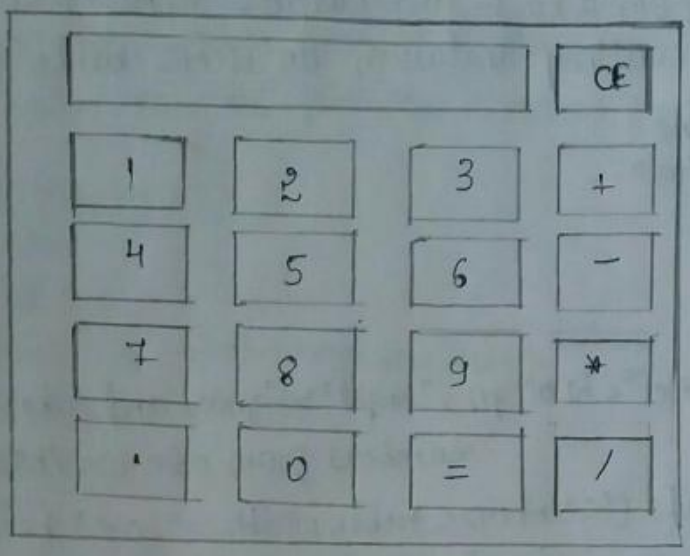
```
<!DOCTYPE html>
<html>
<head><title>Web lab PGM1</title>
  <style>
   body{
        text-align:center;
       }
   .title{
       border-radius : 45px;
       margin-bottom : 30px;
       text-align : center;
       padding : 14px 13px;
       width : 1000px;
       color : red ;
       background-color : red ;
       border- solid black 2px ;
      }
   input[type ="text"] {
       border-radius :10px;
       text-align : right ;
       background-color : gold ;
       width : 94% ;
      }
   input[type ="button"] {
       border-radius : 20px;
       background-color : blue ;
       color : white ;
       border-color : white ;
       width : auto ;
      }
```

```
.btt {
    border-radius : 15 px ;
    margin-bottom : 30px ;
    text-align : center ;
    width : 150 px ;
    color : red ;
    background-color : pink ;
    border solid black 3px ;
    }
</style>
<script>
    function disp(val) {
        document.getElement-Byid('SDM').value += val ;
    }
    function clr() {
        document.getElementById('SDM').value = " " ;
    }
    function solve() {
        let x = document.getElementById('SDM').value ;
        let y = eval(x) ;
        document.getElementById("SDM").value = y ;
    }
</script>
</head>
<body>
    <div class = "title"> SDM JAVASCRIPT LAB PROGRAMME </div>
<center>
<table border = "10">
    <tr>
        <td>
            <input type = " button" value = "CE" onclick = "clr()">
        </td>
        <td colspan = "4">
            <input type = "text" id = "SDM">
        </td>
    </tr>
    <tr>
        <td>
            <input type = "button" value = '4' onclick = "disp('4')">
```

```
</td>
<td>
<input type="button" value="1" onclick="disp('1')">
</td>
<td>
<input type="button" value="2" onclick="disp('2')">
</td>
<td>
<input type="button" value="3" onclick="disp('3')">
</td>
</tr>
<tr>
<td>
<input type="button" value="-" onclick="disp('-')">
</td>
<td>
<input type="button" value="4" onclick="disp('4')">
</td>
<td>
<input type="button" value="5" onclick="disp('5')">
</td>
<td>
<input type="button" value="6" onclick="disp('6')">
</td>
</tr>
<tr>
<td>
<input type="button" value="*" onclick="disp('*')">
</td>
<td>
<input type="button" value="7" onclick="disp('7')">
</td>
<td>
<input type="button" value="8" onclick="disp('8')">
</td>
<td>
<input type="button" value="9" onclick="disp('9')">
</td>
</tr>
<tr>
<td>
<input type="button" value="/" onclick="disp('/')">
</td>
<td>
<input type="button" value="." onclick="disp('.')"></td>
<td><input type="button" value="0" onclick="disp('0')"></td>
<td><input type="button" value="=" onclick="solve()"></td>
</tr>
</table>
```

</body>
</html>

OUTPUT:



EXPERIMENT - 02

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.

```
<!DOCTYPE html>
<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>
```

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 - 03

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.

```
<!DOCTYPE html>
<html>
<head>
<title> JS text program</title>
</head>
<body>
  <div style = "margin-top:200px;" align ="center">
  <p> </p>
  </div>
  <script>
    var text = document.querySelector('p')
    var font = 5 ;
    var flag = 0;
    function inc(){
      font ++;
      text.style.fontsize = font + "pt";
      text.style.color = "red";
      text.textContent = "TEXT_GROWING:" + font + "pt",
      if (font == 50){
        flag = 1 ;
      }
    }
    function dec (){
      font --;
      text.style.font-size = font + "pt";
      text.style.color = "blue";
      text.textContent = "Text_Shrinking:" + font + "pt";
      if (font == 5){
        flag = 0;
      }
    }
```

```
var time = setInterval (function (){
    if (flag == 1) {
      dec ();
    }
    if (flag == 0) {
       inc ();
    }
  }, 100);
</script>
</body>
</html>
```

OUTPUT :

TEXT - GROWING

TEXT - SHRINKING

EXPERIMENT - 04

Develop and demonstrate a HTML 5 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

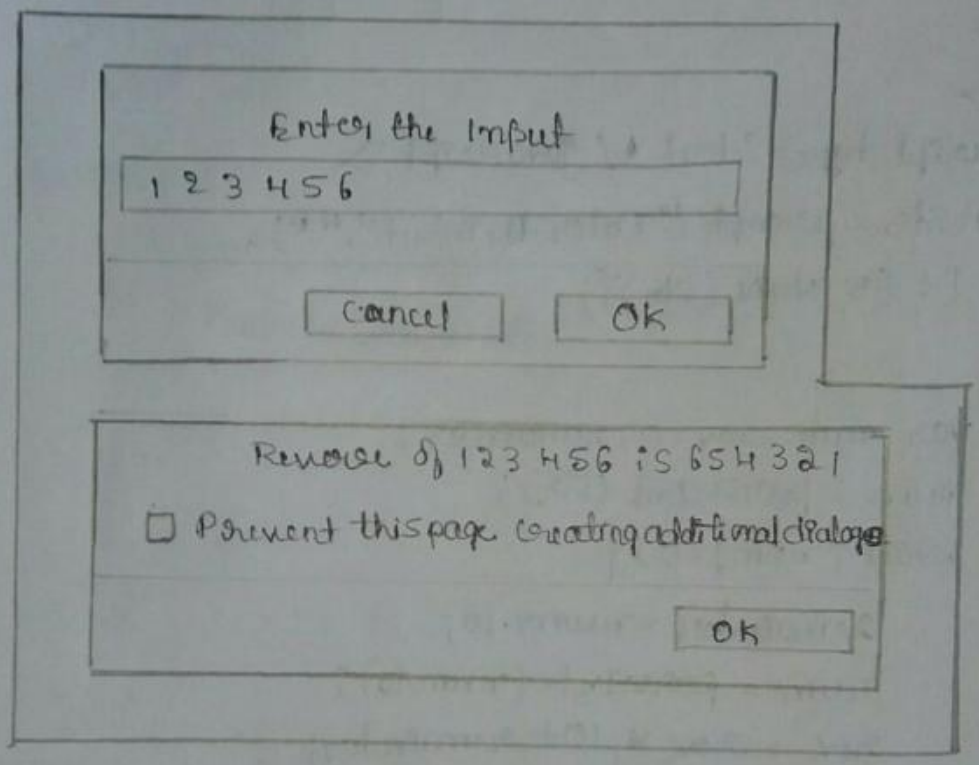
d) Output : The number with its digits in the reverse order

Pgm 1 html

```
<!DOCTYPE .html>
<html>
<body>
    <Script type = "text / javaScript">
    var str = prompt ("Enter the Input", "");
    if (! (is NaN (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 char = str.charAt (i);
        if (char == 'A' || char == 'E' || char == 'I' || char == 'O' || char == '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 :



EXPERIMENT - 05.

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.

Pgm 5. XML

```
<?xml-stylesheet type="text/css" href="s.css"?>
<?DOCTYPE html>
 <html>
 <head>
   <h1> Students description </h1>
 </head>
 <students>
   <student>
        <USN> USN      : 4SU17CS001 </USN>
        <name> NAME    : AMULYA </name>
        <college> COLLEGE : SDMIT </college>
        <branch> BRANCH : Computer Science and Engineering </branch>
        <year> YEAR    : 2017 </year>
        <e-mail> E-Mail : amul@gmail.com </e-mail>
   </student>
   <student>
        <USN> USN      : 4SU17CS002 </USN>
        <name> NAME    : APOORVA </name>
        <college> COLLEGE : SDMIT </college>
        <branch> BRANCH : Computer Science and Engineering </branch>
        <year> YEAR    : 2017 </year>
        <e-mail> E-Mail : apoorva@gmail.com </e-mail>
   </student>
```

```
<Student>
        <USN>USN        : 4SUMCS003</USN>
        <name>NAME      : CHETHAN</name>
        <college>COLLEGE : SDMIT</college>
        <branch>BRANCH : Computer Science and Engineering</branch>
        <year>YEAR      : 20M</year>
        <e-mail>E-mail  : chethan@gmail.com</e-mail>
</Student>
</html>
```

Program5.CSS

```
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 : 18pt ; color : Purple ;
}
year {
    display : block ; margin-left : 20px ; font-size : 14pt ; color : Green ;
}
e-mail {
    display : block ; margin-left : 20px ; font-size : 18pt ; color : Blue ;
}
```

OUTPUT :

Student Description

USN : 4SU17CS001
NAME : AMULYA
COLLEGE : SDMIT
BRANCH : Computer Science and Engineering
YEAR : 2017
E-Mail : amul@gmail.com.

USN : 4SU17CS002
NAME : APOORVA
COLLEGE : SDMIT
BRANCH : Computer Science and Engineering
YEAR : 2017
E-Mail : apoorvac@gmail.com.

USN : 4SU17CS003
NAME : CHETHAN
COLLEGE : SDMIT
BRANCH : ComputerScience and Engineering
YEAR : 2017
E-Mail : chethan@gmail.com.

EXPERIMENT-06

Write a PHP program to keep track of the number of visitors visiting the web page and to display the count of visitors, with proper headings.

program 6.php

```
<?php
    print "<h3> REFRESH PAGE </h3>";
    $name = "counter.txt";
    $file = fopen($name, "r");
    $hits = fscanf($file, "%d");
    fclose($file);

    $hits[0]++;
    $file = fopen($name, "w");
    fprint($file, "%d", $hits[0]);
    fclose($file);

    print "Total number of views:", $hits[0];
?>
```

OUTPUT

REFRESH PAGE

Total number of views: 10

EXPERIMENT - 01

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

program : 1 php

```
<!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

EXPERIMENT -10

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

→ 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: lightblue;
        }
        table{margin: auto;}
    </style>
    <?php
        $servername = "localhost";
        $username = "root";
        $password = "root";
        $dbname = "weblab";
        $a = [];
    // create connection
        // opens a new connection to the MySQL server
        $conn = mysqli_connect($servername, $username,
                               $password, $dbname);
```

```
// check connection and 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 ($result->num_rows>0)
{
   // output data of each row and fetches a result row as
    an associative array.
    while ($row = $result->fetch_assoc()){
            echo "<tr>";
            echo "<td>".$row["usn"]."</td>";
            echo "<td>".$row["name"]."</td>";
            echo "<td>".$row["addr"]."</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 ($result->num_rows > 0) // output data of each row
{
    while ($row = $result->fetch_assoc()){
        for ($i=0; $i<$n; $i++){
            if ($row["usn"] == $a[$i]){
                $c[$i] = $row["name"];
                $d[$i] = $row["address"];
            }
        }
    }
}
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>
```

OUTPUT

BEFORE SORTING

USN	NAME	Address
4SU17CS019	Niranjini	Bengaluru
4SU17CS008	Darshan	Mysuru
4SU17CS004	Anusha	Ujire
4SU17CS042	Vandana	Belthangady

AFTER SORTING

USN	NAME	Address
4SU17CS004	Anusha	Ujire
4SU17CS008	Darshan	Mysuru
4SU17CS019	Niranjini	Bengaluru
4SU17CS042	Vandana	Belathangady