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USN : 4SU17CS034

Program : 1a and b.

Assignment 1

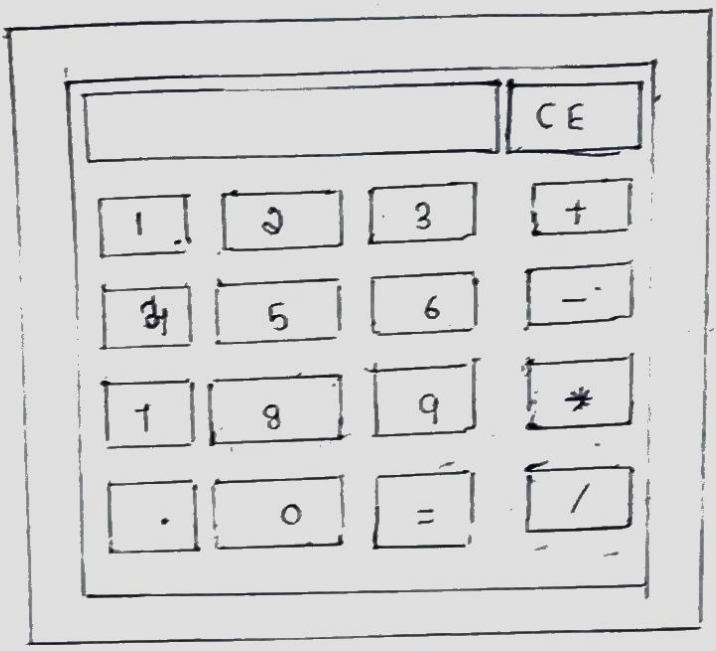
1] Write a Javascript to design a simple calculator to perform the following operations : sum, product, difference and quotient.

```
<!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 18px;
    width : 1000px;
    color : red;
    background-color : red;
    border : Solid black 8px;
}
input [type = "text"] {
    border-radius : px;
    text-align : right;
    background-color : gold;
    width : 94%;
}
input [type = "button"] {
    border-radius : 80px;
    background-color : blue;
    color : white;
```

```
border-color: white;
width: auto;
}
.tit{
    border-radius: 45px;
    margin-bottom: 20px;
    text-align: center;
    width: 150px;
    color: red;
    background-color: pink;
    border: solid black 3px;
}
</style>
<script>
    function disp(val){
    document.getElementById('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">
```

```
>
<td>
  <input type="button" value="CE" onclick=
                                "clr()">
  </td>
   <td colspan="4">
        <inputtype="text" id="SDM">
    </td>
   </tr>
  <tr>
    <td>
    <input type="button" value ="4" onclick=
                                "disp('+')">
     </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>
      <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="+" onclick="disp('+')">
    </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>
     </center>
      </body>
      </html>
```



2.) Write a javascript that calculate Squares and cubes of the numbers from 0 to 10 and output HTML text that displays the resulting value in an HTML table format

```
<!DOCTYPE html>
<html>
<head>
<script>
document.write("<h1 align="right"> Square and
        cubes of the numbers from 0 to 10
        </h1>");

document.write("<center><table width="30%"
        border="1" bg color="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 square and cube.

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

Lab-Assignment

Kruthi.Gs

HS017CS034

3) Write a JS code that displays text "TEXT-GROWING" with increasing font size in the interval of 100ms in RED COLOR, When the ~~format~~ font size reaches 50pt it displays "TEXT-SHRINKING" in BLUE color. Then the font size decrease to 5pt. ~~progm 3~~

→
```
<!DOCTYPE html>
<html>
<body>
<p id = "myP1">TEXT-GROWING.</p>
<pid = "myP2">TEXTSHRINKING</p></body>
<script>
// Global declarations
var size = 10;
var i = 0;
var myWait1 = setInterval(GrowText1, 100);
unction 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.getEle
-entById("myP2").style.visibility
                                = "hidden";
```

```
else
{
clearInterval(myWait1);
myWait1 = setInterval(ShrinkText1, 100);
//Now hide the 1st paragraph & display the 2nd paragraph
document.getElementById("myP1").style.visibility=
                                        "hidden";
document.getElementById("myP2").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

4) Display & demonstrate a HTML 5 file that includes JS 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

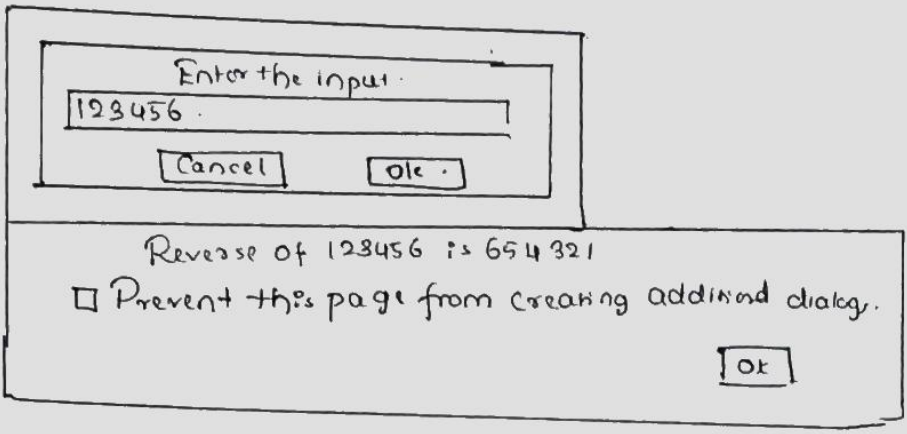
d) Output : The number with its digits in the reverse order.

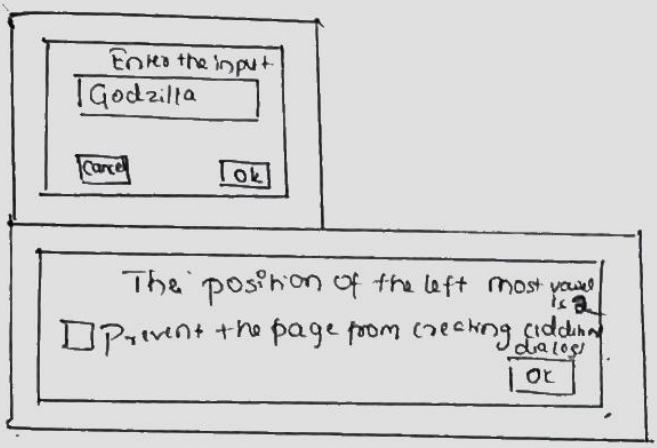
Program4.html

```
<!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)
{
reminder= 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++){
varchr=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>
```

O/p:-





Test Cases

Test No	I/P parameter	Expected O/P	Obtained O/P	Remarks
1	123	Reverse of 123 is 321	Reverse of 123 is 321	Pass
2	Godzilla	The position of the left most vowel is 3	The position of the left most vowel is 3	Pass
3	8k4	No vowel found in the entered string	No vowel found in the entered string	Pass
4	MNKTO	The position of the left most vowel is 5	The position of the left most vowel is 5	Pass

5. Design an XML document to store information about a Student in an engineering college affiliated to VTU. The information must include USN, Name & Name of the College, Branch, Year of Joining, and email id. Make up some data for 3 students. Create a css style sheet & use it to display that document.

→ program5.xml

```
<?xml-stylesheet type="text/css" href="5.css"?>
<!DOCTYPE HTML>
<html>
    <head>
        <h1 STUDENTS DESCRIPTION </h1>
    </head>
    <students>
        <student>
            <USN> USN : #SUITCS003 </USN>
            <name> NAME : TOKYO </name>
            <college> COLLEGE: SDMIT </college>
            <branch> BRANCH: CS </branch>
            <year> YEAR : 2017 </year>
            <email> Email : Tokyo@gmail.com </email>
        </student>
        <student>
            <USN> USN : #SUITCS004 </USN>
            <name> NAME: Nairobi </name>
            <college> COLLEGE : SDMIT </college>
            <branch> BRANCH : CS </branch>
            <year> YEAR : 2017 </year>
            <email> Email : nairobi@gmail.com </email>
```

```
</student>
<Student>
  <USN> USN : 4SU17CS005 </USN>
   <name> Name: Denver</name>
    <college> COLLEGE: SDMIT </college>
     <branch > BRANCH : CS </branch>
      <year> YEAR : 2017 </year>
       <email > Email : Denver@gmail.com </email>
    </student>
    ~~</stud~~
</html>
```

Prgm 5. css

```
student {
        display: block; margin-top: 10px; color:
      }
USN {
      display: block : margin-left: 10px; font size: 14pt
      color : Red;
    }
Name {
      display: block: margin-left : 20px : font size:
      14pt ; Color
    }
College {
      display: block; margin-left: 20px ; font-size: 12
      Color : Maroon
    }
branch {
      display: block ; margin-left: 20px : font size 12pt
      Color : pu-pu;
    }
year {
      display : block ; margin-left : 20px; font-size
      14pt ; color : Gr
    }
```

email {

display: block; margin-left: 20px; font-size: 12pt; color: Blue;

}

O/P:

STUDENT DESCRIPTION

USN: 4SU17CS003
NAME: TOKYO
COLLEGE: SDMIT
BRACH: CS
YEAR: 2017
E-mail: tokyo@gmail.com

USN: 4SU17CS004
NAME: NAIROBI
COLLEGE: SDMIT
BRANCH: CS
YEAR: 2017
E-mail: nairobi@gmail.com.

USN: 4SU17CS005
NAME: DENVER
COLLEGE: SDMIT
BRANCH: CS
YEAR: 2017
E-mail: denver@gmail.com

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

→ Program 6.php

```
<?php
    print "<h3> RERESH PAGE </h3>";
    $name = "counter.txt";
    $file = fopen ($name, "r");
    $hits = fscanf ($file, "%d");
    fclose ($file);
    $hits[0]++;
    $file = fopen ($name, "w");
    fprintf ($file, "%d", $hit[0]);
    fclose ($file);
    print "Total number of views: ". $hits;
?>
```

Output:

REREFSH PAGE

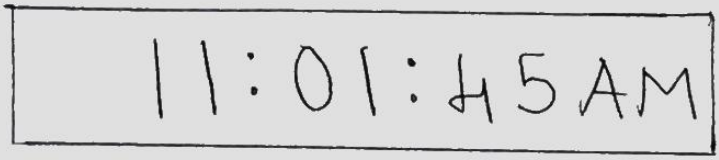
Total number of views: 10.

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

→ Program.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:sA");?>
    </p>
</head>
```

O/P:



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

→ Goto Mysql and then type.

```
Create database weblab;
use weblab;
Create table Student (usn varchar (10), name
                      varchar (20), addrew varc
                                    (30));
```

Program 10.php.

```
<!DOCTYPE.html>
<html>
    <body>
        <style>
            table, td, th
            {
                border : 1px solid black;
                width : 33%
                text-align : center;
            border-collapse : collapse;
            background-color : light
            }
            table { margin : auto; }
        </style>
        <?php
            $servername = "localhost";
            $username = "root";
            $password = "root";
            $dbname = "weblab";
            $a = [];
```

```
$conn = mysqli_connect ($servername, $username,
                        $password, $dbname);
if ($conn->connect_error)
        die("Connection failed: ". $conn->
                                    connect_error);
$sql = "SELECT * FROM student";
$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 ($result->num_rows > 0)
  {
    while ($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)
{
  while($row=$result->fetch_as
   for($i=0;$i<$n;$i++){
      if($row["usn"]==$a[$
        $c[$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>Address</th>
```

```
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>
```

O/P:

BEFORE SORTING

USN	NAME	Address
HSU17CS019	Niranjani	Bengaluru
HSU17CS008	Darshan	Mysuru
HSU17CS004	Anusha	Ujire
HSU17CS042	Vandana	Belthangady

AFTER SORTING

USN	NAME	Address
HSU17CS004	Anusha	Ujire
HSU17CS008	Darshan	Mysuru
HSU17CS019	Niranjani	Bengaluru
HSU17CS042	Vandana	Belthangady