

Sharanya
45017CS085

1

WTA Lab:

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

program1.html

```
<!DOCTYPE>
<html>
<head>
<link rel="stylesheet" href="sty.css"/>
</head>
<center>
<body>
<form name="calculator">
<table border="3">
<tr><td colspan="4"><input name="display" id="display" readonly></td>
<td>
<td><input type="button" value="1" onclick="calculator.display.value += '1'"></td>
<td><input type="button" value="2" onclick="calculator.display.value += '2'"></td>
<td><input type="button" value="3" onclick="calculator.display.value += '3'"></td>
<td><input type="button" value="+" onclick="calculator.display.value += '+'"></td>
<td>
<td><input type="button" value="4" onclick="calculator.display.value += '4'"></td>
```

```

<td><input type="button" value="5" onclick=
"calculator.display.value += '5'"></td>
<td><input type="button" value="6" onclick=
"calculator.display.value += '6'"></td>
<td><input type="button" value="-" onclick=
"calculator.display.value += '-'"></td>
</tr>
<tr>
<td><input type="button" value="7" onclick=
"calculator.display.value += '7'"></td>
<td><input type="button" value="8" onclick=
"calculator.display.value += '8'"></td>
<td><input type="button" value="9" onclick=
"calculator.display.value += '9'"></td>
<td><input type="button" value="/" onclick=
"calculator.display.value += '/'"></td>
</tr>
<tr>
<td><input type="button" value="." onclick=
"calculator.display.value += '.'"></td>
<td><input type="button" value="0" onclick=
"calculator.display.value += '0'"></td>
<td><input type="button" value="=" onclick=
"calculator.display.value = eval(calculator.display.
value)"></td>
<td><input type="button" value="/" onclick=
"calculator.display.value += '/'"></td>
</tr>
<tr>
<td><input type="button" value="c" onclick=
"calculator.display.value = ''"></td>

```

③

```
<form><input type = "button" value = "./" onclick =  
"calculator.display.value += '.'"></form>  
</div>  
</label>  
</form>  
</body>  
</center>  
</html>
```

sty. CSS:

```
form {  
border-radius: 1px;  
border: 2px double black;  
margin-bottom: 10px;  
text-align: center;  
width: 216px;  
color: black;  
}
```

```
input [type = "button"] {  
border-radius: 100px;  
background-color: grey;  
color: black;  
border-color: width;  
width: 100%;
```

```
input type = "text" {  
border-radius: 20px;  
text-align: right;  
border-color: width;  
width: 96%;
```

}

Soln. Q5

```

function display(value) {
    document.getElementById('soln').value = val;
}

function clear() {
    document.getElementById('soln').value = "";
}

function solve() {
    let x = document.getElementById('soln').value;
    let y = eval(x);
    document.getElementById('soln').value = y;
}

```

- Q. 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.html

```

<html>
<head>
<script>
document.write('h1 align = "right" > Squares & 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>');
}

```

3
 document.write("<table>");
 </script>
 </head>
 </html>

4. Develop and demonstrate a HTML5 file that includes Javascript script that uses functions for the following questions
- Parameter: A string
 - Output: The position in the string of the left-most vowel.
 - Parameter: A number
 - 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){
    remainder = num%10;
    num = parseInt(num/10);
    rev = rev*10 + remainder;
  }
  document.write(rev);
}
</script>
</body>
</html>
```

⑥

```
alesat("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 == 'I' || char == 'O' || char ==  
            'U') break;  
    }  
    if (i < str.length)  
        alesat("The position of the left most vowel  
        is " + (i + 1));  
    else  
        alesat("No vowel found in the entered  
        string.");  
}  
</script>  
</body>  
</html>
```

Experiment 05:

①

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. and

```
<?xml-stylesheet type = "text/css" href = "5.css"?>
<!DOCTYPE HTML>
<html>
<head>
<h1> Student Description </h1>
</head>
<student>
<student>
<USN> USN : 45617CS001 </USN>
<name> NAME : Santosh </name>
<college> COLLEGE : SOMIT </college>
<bran> Branch : CSE </bran>
<year> Year : 2017 </year>
<email> E-mail : santosh@gmail.com </email>
</student>
<student>
<USN> USN : 45617CS002 </USN>
<name> Name : Monsoonjan </name>
<college> College : SOMIT </college>
```

</branch> Branch : CSE </branch>

</year> Year : 2017 </year>

</email> E-mail : manoranjan@gmail.com </email>

</student>

</student>

</USN> USN: 45C17CS003 </USN>

</name> Name: Chetan </name>

</college> college : SOMET </college>

</branch> Branch : CSE </branch>

</year> Year : 2017 </year>

</email> E-mail : chetan@gmail.com </email>

</student>

</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;
}

}

Q

```
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: 12pt;  
    color: Green;  
}  
  
email {  
    display: block; margin-left: 20px; font-size: 12pt;  
    color: Blue;  
}
```

Output:

Student description.

USN: 45C17C5001

Name: Santosh

College: SDM IT

Branch: CSE

Year : 2017

E-mail : santosh@gmail.com

USN: 45C17C5002

Name: Monsoon

College: SDM IT

Branch: CSE

Year : 2017

E-mail: manoranjan@gmail.com

10

USN: 4SC17CS003

Name: Chetan

College: SIDMKT

Branch: CSE

Year: 2017

E-mail: chetan@gmail.com

Experiment 06:

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

<?php
header("Refresh: 1");
\$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 09 :

- Write a PHP program named states.php that declares a variable states with the value "Mississippi Alabama Texas Massachusetts Kansas". Write a PHP program that does the following.
- Search for a word in variable states that ends in as. Store this word in element 0 of a list named stateList.
 - Search for a word in states that begins with k and ends in s. Perform a case-sensitive comparison [Note: Passing `re. I` as a second parameter to method `compile` performs a case-insensitive comparison]. Store this word in element 1 of stateList.
 - Search for a word in states that begins with M and ends in s. Store this word in element 2 of the list.
 - Search for a word in states that ends in a. Store this word in element 3 of the list.

program.php.

```

<?php
$states = 'Mississippi Alabama Texas Massachusetts
           Kansas';
$statesArray = [];
$states1 = explode(' ', $states);
echo 'Original array: <br>';
foreach ($states1 as $i => $value)
    print(' STATES[' . $i . '] = ' . $value . '<br>');
foreach ($states1 as $state) {
    if (preg-match('/as$/i', ($state)))
        $statesArray[0] = ($state);
}
foreach ($states1 as $state) {
    if (preg-match('/^k.*ss$/i', ($state)))
        $statesArray[1] = ($state);
}
foreach ($states1 as $state) {
    if (preg-match('/^M.*ss$/i', ($state)))
        $statesArray[2] = ($state);
}
foreach ($states1 as $state) {
    if (preg-match('/ast/i', ($state)))
        $statesArray[3] = ($state);
}

```

```

echo 'Resultant Array : <br>';
foreach ($statesArray as $array => $value)
    print(" STATES[$array] = $value <br> ");
?>

```

Output:

Original Array :

```

STATES[0] = Mississippi
STATES[1] = Alabama
STATES[2] = Texas
STATES[3] = Massachusetts
STATES[4] = Kansas

```

Resultant Array :

```

STATES[0] = Texas
STATES[1] = Kansas
STATES[2] = Massachusetts
STATES[3] = Alabama

```

Experiment 10:

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

Go to MySQL and then type
 create database weblab;
 use weblab;

(14)

```
create table student(cusn varchar(10),  
name varchar(20),  
address varchar(20));
```

program10.php

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<style>
```

```
table, td, th
```

```
{
```

```
border: 1px solid black;
```

```
width: 33.3%;
```

```
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
```

(15)

```
$conn = mysqli_connect($servername, $username,
                      $password, $dbname);

// Check connection and return on 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 ($result->num_rows > 0)
{
    while ($row = $result->fetch_assoc()) {
        echo '<tr>';
        echo '<td>' . $row['usn'] . '</td>';
        echo '<td>' . $row['name'] . '</td>';
        echo '<td>' . $row['address'] . '</td></tr>';
        array_push($q, $row['usn']);
    }
}
```

else

echo "Table is Empty";

echo "4Tables";

\$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

{}
while (\$row = \$result->fetch_assoc()) {

for(\$i=0; \$i<\$n; \$i++) {

if (\$row['cn'] == \$a[\$i]) {

```
$c[$i] = $row['name'];
$c0[$i] = $row['address'];
```

333

```
echo '<tr>';
```

```
echo '<td>' . $c[$i] . '</td>' . $c0[$i] . '</td>';
```

```
echo '<td>' . $table . '</td>';
```

```
echo '<td>';
```

```
echo '<td>' . $row['CSN'] . '<td>' . $row['Name'] . '<td>' . $row['Address'] . '</td>' . '</td>';
```

```
for($i=0; $i < $n; $i++) {
```

```
echo '<tr>';
```

```
echo '<td>' . $a[$i] . '</td>';
```

```
echo '<td>' . $c[$i] . '</td>';
```

```
echo '<td>' . $d[$i] . '</td>' . '</td>';
```

3

```
echo '</table>';
```

```
$conn->close();
```

?7

```
</body>
```

```
</html>
```

Output:

CSN	Name	Address
4SUITCS019	Niranjini	Bengaluru
4SUITCS008	Danishan	Mysore
4SUITCS004	Anushka	Cajira
4SUITCS042	Vandana	Belthong gad gad

After Sorting

USN	Name	Address
4SUITCS004	Anusha	Ojine
4SUITCS008	Darshan	Mysore
4SUITCS019	Niranjini	Bengaluru
4SUITCS042	Vandana	Bellary.