Fall Semester 2020-21 Registration Number : 18BCE0503 Solution of Digital Lab Assignment-6(CSE3002) Name of Student: Rohan Mittal

**EXERCISE 6 – JAVASCRIPT**

1.html - ADD, SUBTRACT, MULTIPLY, DIVIDE

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 6</title>

<style type="text/css">

body {

margin: 30px;

}

</style>

</head>

<body>

<a href="10.html" type="button" style="background-color: gray; color: white; padding:5px; text-decoration: none;">MENU</a>

<h1>ADD, SUBTRACT, MULTIPLY, DIVIDE</h1>

<form>

Enter the Number 1: <input type="number" id="first" /><br />

Enter the Number 2: <input type="number" id="second" /><br />

<input type="button" onClick="addBy()" value="Add" />

<input type="button" onClick="subtractBy()" value="Subtract" />

<input type="button" onClick="multiplyBy()" value="Multiply" />

<input type="button" onClick="divideBy()" value="Divide" />

<p>

Answer: <br />

<span id="num1"></span>

<span id="sign"></span>

<span id="num2"></span>

<span id="result"></span> <br />

</p>

<script>

function addBy() {

num1 = parseInt(document.getElementById("first").value);

num2 = parseInt(document.getElementById("second").value);

document.getElementById("num1").innerHTML = document.getElementById("first").value

document.getElementById("num2").innerHTML = document.getElementById("second").value + " = "

document.getElementById("sign").innerHTML = '+'

document.getElementById("result").innerHTML = num1 + num2;

}

function subtractBy() {

num1 = parseInt(document.getElementById("first").value);

num2 = parseInt(document.getElementById("second").value);

document.getElementById("num1").innerHTML = document.getElementById("first").value

document.getElementById("num2").innerHTML = document.getElementById("second").value + " = "

document.getElementById("sign").innerHTML = '-'

document.getElementById("result").innerHTML = num1 - num2;

}

function multiplyBy() {

num1 = parseInt(document.getElementById("first").value);

num2 = parseInt(document.getElementById("second").value);

document.getElementById("num1").innerHTML = document.getElementById("first").value

document.getElementById("num2").innerHTML = document.getElementById("second").value + " = "

document.getElementById("sign").innerHTML = '\*'

document.getElementById("result").innerHTML = num1 \* num2;

}

function divideBy() {

num1 = parseInt(document.getElementById("first").value);

num2 = parseInt(document.getElementById("second").value);

document.getElementById("num1").innerHTML = document.getElementById("first").value

document.getElementById("num2").innerHTML = document.getElementById("second").value + " = "

document.getElementById("sign").innerHTML = '/'

document.getElementById("result").innerHTML = num1 / num2;

}

</script>

</form>

</body>

</html>

2.html - FACTORIAL

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 6</title>

<style type="text/css">

body {

margin: 30px;

}

</style>

</head>

<body>

<a href="10.html" type="button" style="background-color: gray; color: white; padding:5px; text-decoration: none;">MENU</a>

<h1>FACTORIAL</h1>

<form>

Enter Num: <input type="number" id="num" />

<input type="button" onClick="factorial()" value="Factorial" />

</form>

<p>The Result is : <br>

<span id = "result2"></span>

</body>

<script>

function factorial() {

var i, no, fact;

fact = 1;

no = parseInt(document.getElementById("num").value);

for (i = 1; i <= no; i++) {

fact = fact \* i;

}

document.getElementById("result2").innerHTML = fact;

}

</script>

</html>

3.html - FIBONACCI

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 6</title>

<style type="text/css">

body {

margin: 30px;

}

</style>

</head>

<body>

<a href="10.html" type="button" style="background-color: gray; color: white; padding:5px; text-decoration: none;">MENU</a>

<h1>FIBONACCI</h1>

<form>

Enter Num: <input type="number" id="num" />

<input type="button" onClick="fibonacci()" value="Compute" />

</form>

<p>

The Result is : <br />

<span id="result"></span>

</p>

</body>

<script>

function fibonacci() {

var n1 = 0;

var n2 = 1;

var sum;

var n = parseInt(document.getElementById("num").value);

document.getElementById("result").innerHTML = fibonacci\_series(n);

}

var fibonacci\_series = function (n) {

if (n === 1) {

return [0, 1];

} else {

var s = fibonacci\_series(n - 1);

s.push(s[s.length - 1] + s[s.length - 2]);

return s;

}

};

</script>

</html>

4.html - PALINDROME

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 6</title>

<style type="text/css">

body {

margin: 30px;

}

</style>

</head>

<body>

<a href="10.html" type="button" style="background-color: gray; color: white; padding:5px; text-decoration: none;">MENU</a>

<h1>PALINDROME</h1>

<form>

Enter string: <input type="text" id="str" />

<input type="button" onClick="Palindrome()" value="Check" />

</p>

<p>

The string is

<span id="result"></span>

</p>

</form>

</body>

<script>

function Palindrome()

{

var cstr = document.getElementById("str").value;

var ccount = 0;

if ((cstr.length) % 2 === 0)

{

ccount = (cstr.length) / 2;

}

else

{

if (cstr.length === 1) {

document.getElementById("result").innerHTML = "Palindrome.";

}

else{

ccount = (cstr.length - 1) / 2;

}

}

for (var x = 0; x < ccount; x++) {

if (cstr[x] != cstr.slice(-1-x)[0]) {

document.getElementById("result").innerHTML = "Not a Palindrome."

}

else{

document.getElementById("result").innerHTML = "Palindrome.";

}

}

}

</script>

</html>

5.html - PRIME

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 6</title>

<style type="text/css">

body {

margin: 30px;

}

</style>

</head>

<body>

<a href="10.html" type="button" style="background-color: gray; color: white; padding:5px; text-decoration: none;">MENU</a>

<h1>PRIME</h1>

<form>

Enter Number: <input type="number" id="num" />

<input type="button" onClick="isPrime()" value="Check" />

</p>

<p>

The number is

<span id="result"></span>

</p>

</form>

</body>

<script>

function isPrime(){

var i, n, flag=0;

n = parseInt(document.getElementById("num").value);

for(i=2;i<n;i++){

if(n%i==0){

flag=1;

document.getElementById("result").innerHTML = " Not a prime";

break;

}

}

if(flag==0){

document.getElementById("result").innerHTML = "a Prime";

}

}

</script>

</html>

6.html - GRADES!!!

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 6</title>

<style type="text/css">

body {

margin: 30px;

}

</style>

</head>

<body>

<a href="10.html" type="button" style="background-color: gray; color: white; padding:5px; text-decoration: none;">MENU</a>

<h1>GRADES!!!</h1>

<form>

Enter Marks: <input type="number" id="num" />

<input type="button" onClick="checkGrade()" value="Check" />

</p>

<p>

The grade is

<span id="result"></span>

</p>

</form>

</body>

<script>

function checkGrade()

{

var n;

n = parseInt(document.getElementById("num").value);

if(n>=90)

{

document.getElementById("result").innerHTML="Wow!! S Grade";

}else if(n>=80)

{

document.getElementById("result").innerHTML="Nice!! A Grade";

}else if(n>=70)

{

document.getElementById("result").innerHTML="B Grade";

}else if(n>=60)

{

document.getElementById("result").innerHTML="C Grade";

}else if(n>=50)

{

document.getElementById("result").innerHTML="D Grade";

}else if(n>=40)

{

document.getElementById("result").innerHTML="E Grade";

}else

{

document.getElementById("result").innerHTML="F Grade";

}

}

</script>

</html>

7.html - GREETING!!!

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 6</title>

<style type="text/css">

body {

margin: 30px;

}

</style>

</head>

<body onload="greeting()">

<a href="10.html" type="button" style="background-color: gray; color: white; padding:5px; text-decoration: none;">MENU</a>

<h1>GREETING!!!</h1>

Hi,

<span id="result"></span>

</p>

</form>

</body>

<script>

function greeting()

{

var d = new Date();

document.getElementById("result").innerHTML= d.getHours();

var n = d.getHours();

if(n>=5 && n<12)

{

document.getElementById("result").innerHTML="Good Morning";

}else if(n>=12 && n<16)

{

document.getElementById("result").innerHTML="Good Afternoon";

}else if(n>=16 && n<20)

{

document.getElementById("result").innerHTML="Good Evening";

}else

{

document.getElementById("result").innerHTML="Good Night";

}

}

</script>

</html>

8.html - TEXT AREA

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 6</title>

<style type="text/css">

body {

margin: 30px;

}

</style>

</head>

<body>

<a href="10.html" type="button" style="background-color: gray; color: white; padding:5px; text-decoration: none;">MENU</a>

<h1>TEXT AREA</h1>

<textarea id="txt" rows="4" cols="30" ></textarea>

<button onclick="modify()">MODIFY</button>

</body>

<script>

i=0;

function modify(){

console.log("hi");

if(i==0){

document.getElementById("txt").style.backgroundColor="black";

document.getElementById("txt").style.color="white";

document.getElementById("txt").style.textDecorationLine="none";

document.getElementById("txt").rows="10";

document.getElementById("txt").style.border="10px dotted red";

document.getElementById("txt").style.borderRadius="10px";

i=1;

}else{

document.getElementById("txt").style.backgroundColor="white";

document.getElementById("txt").style.color="black";

document.getElementById("txt").style.textDecorationLine="underline";

i=0;

document.getElementById("txt").rows="7";

document.getElementById("txt").style.border="10px dotted green";

}

}

</script>

</html>

9.html - CALCULATOR

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 6</title>

<style type="text/css">

body {

margin: 30px;

}

#calculator {

position: relative;

width: 400px;

border: 2px solid black;

border-radius: 10px;

margin: 0px auto;

padding: 20px 20px 20px 20px;

}

input[type=button] {

background: black;

color: white;

width: 20%;

height: 40px;

font-size: 20px;

border-width: 1px;

border-radius: 7px;

margin-left: 13px;

margin-top: 10px;

}

input#op{

background-color: indigo;

}

input#eq{

background-color: yellowgreen;

}

</style>

</head>

<body>

<a href="10.html" type="button" style="background-color: gray; color: white; padding:5px; text-decoration: none;">MENU</a>

<h1>CALCULATOR</h1>

<div id="calculator">

<div style="height: 50px; background-color: cornflowerblue;">

</div>

<input type="button" value=" C " />

<input type="button" value=" +/- "/>

<input type="button" value=" % "/>

<input id="op" type="button" value=" / " />

<br>

<input type="button" value=" 7 " />

<input type="button" value=" 8 "/>

<input type="button" value=" 9 "/>

<input id="op" type="button" value=" X " />

<br>

<input type="button" value=" 4 " />

<input type="button" value=" 5 "/>

<input type="button" value=" 6 "/>

<input id="op" type="button" value=" - " />

<br>

<input type="button" value=" 1 " />

<input type="button" value=" 2 "/>

<input type="button" value=" 3 "/>

<input id="op" type="button" value=" + " />

<br>

<input type="button" value=" 0 " />

<input type="button" value=" . "/>

<input type="button" value=" del "/>

<input id="eq" type="button" value=" = " />

</div>

</div>

</body>

</html>

10.html - MENU

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 6</title>

<style type="text/css">

body {

margin: 30px;

}

</style>

</head>

<body>

<h1>LINKS</h1>

<ol>

<li><a href="1.html">ADD, SUBTRACT, MULTIPLY, DIVIDE</a></li>

<li><a href="2.html">FACTORIAL</a></li>

<li><a href="3.html">FIBONACCI</a></li>

<li><a href="4.html">PALINDROME</a></li>

<li><a href="5.html">PRIME</a></li>

<li><a href="6.html">GRADES!!!</a></li>

<li><a href="7.html">GREETING!!!</a></li>

<li><a href="8.html">TEXT AREA</a></li>

<li><a href="9.html">CALCULATOR</a></li>

</ol>

</body>

</html>