Fall Semester 2020-21 Registration Number : 18BCE0503 Solution of Digital Lab Assignment-5(CSE3002) Name of Student: Rohan Mittal

**Exercise 7 – Calculator using jquery**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title>Exercise 7</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;

}

.key, .dummy {

width: 93px;

height: 20px;

background: black;

color: white;

display: inline-block;

margin: 3px 0px 8px 3px;

vertical-align: bottom;

text-align: center;

padding: 5px 0px 5px 0px;

/\* font-weight: bold; \*/

border-radius: 4px;

cursor: pointer;

box-shadow: 0 3px 0 #a1a1a1, 0 2px 5px rgba(0, 0, 0, .75);

}

.dummy{

cursor:not-allowed;

background-color: #a1a1a1;

}

.op{

background-color: indigo;

}

.eq{

background-color: yellowgreen;

width: 192px;

}

</style>

</head>

<body>

<h1>CALCULATOR</h1>

<div id="calculator">

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

</div><br>

<span class="key op">sq.</span>

<span class="key op">sqrt.</span>

<span class="key op">%</span>

<span class="key op">+</span><br>

<span class="key">7</span>

<span class="key">8</span>

<span class="key">9</span>

<span class="key op">-</span><br>

<span class="key">4</span>

<span class="key">5</span>

<span class="key">6</span>

<span class="key op">\*</span><br>

<span class="key">1</span>

<span class="key">2</span>

<span class="key">3</span>

<span class="key op">/</span><br>

<span class="key">0</span>

<span class="key">.</span>

<span class="key op">Clr</span>

<span class="key op">C/OFF</span><br>

<span class="dummy"></span>

<span class="key op">N</span>

<span class="key eq">=</span>

</div>

</div>

</body>

<script src='https://ajax.googleapis.com/ajax/libs/jquery/1.11.0/jquery.min.js' type='text/javascript'></script>

<script type="text/javascript">

$(document).ready(function(){

var displayValue = '0';

$('#result').text(displayValue);

$('.key').each(function(index, key){

$(this).click(function(e){

if(displayValue == '0') displayValue = '';

if($(this).text() == 'Clr')

{

displayValue = '0';

$('#result').text(displayValue);

}else if($(this).text() == 'C/OFF'){

if(document.getElementById('result').innerHTML=='Invalid Input!'){

displayValue='0'

$('#result').text(displayValue);

}else{

displayValue = document.getElementById('result').innerHTML.substring(0, document.getElementById('result').innerHTML.length - 1);

$('#result').text(displayValue);

}

}else if($(this).text()=='N'){

displayValue = '-1\*' + displayValue;

displayValue = eval(displayValue);

$('#result').text(displayValue);

}

else if($(this).text() == '=')

{

try

{

// displayValue.replace(/([\d\.]+(,\s\*[\d\.]+)+)/g, "[$1]")

// displayValue = displayValue.replace(/([\d\.]+([\d\.]+)+)/g, "($1)");

console.log(displayValue);

if(displayValue.includes('sq.')){

displayValue = displayValue.replace('sq.', '');

displayValue+='\*\*2';

}else if(displayValue.includes('sqrt.')){

displayValue = displayValue.replace('sqrt.', '');

displayValue+='\*\*0.5';

}

displayValue = displayValue.replace('%', '/100 ');

displayValue = eval(displayValue);

$('#result').text(displayValue);

}

catch (e)

{

displayValue = '0';

$('#result').text('Invalid Input!');

}

}

else

{

displayValue += $(this).text();

if($(this).text() == 'sqrt.'){

displayValue+=' ';

}

$('#result').text(displayValue);

}

e.preventDefault()

})

})

})

</script>

</html>

**Original**

Graphical user interface, application

Description automatically generated

**Input/output for 9+3-2\*9/3**

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

**Input/output for 80% of 200**

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

**Input/Output for sqrt. 80**

Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated

**Input/Output for sq.12**

**Graphical user interface, application

Description automatically generated**

**Graphical user interface, application

Description automatically generated**