# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab 2

**Date: 19 September, 2019**

**Time: 10:00-01:00pm & 02:00-05:00pm**

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**Lab Engineer: Ms. Ayesha Asif**

# 

# Lab 2:

<!DOCTYPE html>

<html>

<head>

<style type="text/css">

td

{

border:1px solid;

width: 50px;

height:50px;

background-color:lightblue;

}

#isEqual

{

background-color:#03befc;

text-align: center;

}

#result

{

background-color:#03befc;

}

</style>

<title>Lab03</title>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

</head>

<body>

<center>

<h1> Calculator </h1>

<table>

<tr><td colspan="4" id="result"></td></tr>

<tr>

<td class="box1 button" id="multiply" numericData='\*'>\*</td>

<td class="box1 button" id="divide" numericData='/'>/</td>

<td class="box1 button" id="subtract" numericData='-'>-</td>

<td class="box1 button" id="add" numericData='+'>+</td>

</tr>

<tr>

<td class="box button" id="dot">.</td>

<td class="box button" numericData='9'>9</td>

<td class="box button" numericData='8'>8</td>

<td class="box button" numericData='7'>7</td>

</tr>

<tr>

<td class="box button" numericData='6'>6</td>

<td class="box button" numericData='5'>5</td>

<td class="box button" numericData='4'>4</td>

<td class="box button" numericData='3'>3</td>

</tr>

<tr>

<td class="box button" numericData='2'>2</td>

<td class="box button" numericData='1'>1</td>

<td class="box button" numericData='0'> 0</td>

<td class="box button" id="pm">+-</td>

</tr>

<tr>

<td class="box" id="clear">C</td>

<td class="box button" id="sqr">√</td>

<td class="box button" id="den">1/x</td>

<td class="box button" id="square">x2</td>

</tr>

<tr>

<td class="box" id="mr">MR</td>

<td class="box" id="m+">M+</td>

<td class="box" id="mc">MC</td>

<td class="box" id="ms">MS</td>

</tr>

<tr>

<td colspan="4" class="box" id="isEqual">=</td>

</tr>

</table></center>

<script type="text/javascript">

var button = document.querySelectorAll('.button');;

var result = $("#result");

var clear = $("#clear");

var sqr = $("#sqr");

var den = $("#den");

var square = $("#square");

var mr = $("#mr");

var mp = $("#m+");

var mc = $("#mc");

var ms = $("#ms");

var pm = $("#pm");

var equal = $("#isEqual");

button.forEach(function(btn){

btn.addEventListener('click' , function(){

let number = btn.getAttribute('numericData');

$(result).append(number);

});

});

document.addEventListener('keydown', function(event){

if(event.key == 'Enter'){equalHandler();}

if(event.key == 'C' || event.key == 'c'){clearHandler();}

let arr = ['1','2','3','4','5','6','7','8','9','0' , '+','-','\*','/'];

if(arr.indexOf(event.key) >= 0){

$(result).html(event.key);

}

});

$(equal).on('click', equalHandler);

function equalHandler(){

var a= $(result).html();

let value1 = eval(a);

$(result).html(value1);

}

$(clear).on('click' , clearHandler);

function clearHandler(){

$(result).html("");

};

$("#dot").on('click',decimal);

function decimal()

{

$(result).append(".0");

}

$(sqr).on('click' , squareRoot);

function squareRoot() {

x = parseInt($(result).html());

$(result).html(Math.sqrt(x));

}

$(square).on('click' , square1);

function square1(){

x = parseInt($(result).html());

$(result).html(Math.pow(x,2));

}

$(den).on('click' , denm);

function denm(){

x = parseInt($(result).html());

$(result).html(1/x);

}

var num = 0;

$(ms).on('click' , storeNumber);

function storeNumber(){

num = parseInt($(result).html());

}

$(mr).on('click' , readnumber);

function readnumber(){

$(result).html(num);

}

$(mc).on('click' , clearnumber);

function clearnumber(){

num = 0;

}

$(mp).on('click' , mplus);

function mplus(){

num = $(result).html();

}

$(pm).on('click' , changeSign);

function changeSign()

{

x = -1\*(parseInt($(result).html()));

$(result).html(x);

}

</script>

</body>

</html>