|  |  |  |  |
| --- | --- | --- | --- |
| **Lab No** | 02 | **Reg. No** | 217918 |
| **Student Name** | Mir Humayun Nisar | **Section** | B |

**TASK1:**

<!DOCTYPE html>

<html>

<head>

<title> Task4 </title>

<style type="text/css">

\*{

margin-left: 15%;

margin-right: 15%;

margin-top: 3%;

}

#answer{

margin-right: 3%;

width: 320px;

height: 55px;

background-color: #2A2A3B;

text-align: left;

color: white;

font-size: 30px;

}

.box{

width: 80px;

height: 50px;

background-color: #E3E2E3;

border : 1px solid black;

text-align: center;

color: black;

font-size: 30px;

}

.box1{

width: 80px;

height: 50px;

background-color: #FF9845;

border : 1px solid black;

text-align: center;

color: white;

font-size: 30px;

}

#equals{

background-color: green;

}

#clear{

background-color: #FF251A;

}

.box:hover{

background-color: #FF251A;

}

.box1:hover{

background-color: #A3EAF3;

}

h1{

text-align: center;

}

</style>

</head>

<body>

<table>

<tr>

<td colspan="4" id="answer"></td>

</tr>

<tr>

<td class="box1 button" id="multiply" data-num='\*'>\*</td>

<td class="box1 button" id="divide" data-num='/'>/</td>

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

<td class="box1 button" id="add" data-num='+'>+</td>

</tr>

<tr>

<td class="box button" data-num='.'>.</td>

<td class="box button" data-num='9'>9</td>

<td class="box button" data-num='8'>8</td>

<td class="box button" data-num='7'>7</td>

</tr>

<tr>

<td class="box button" data-num='6'>6</td>

<td class="box button" data-num='5'>5</td>

<td class="box button" data-num='4'>4</td>

<td class="box button" data-num='3'>3</td>

</tr>

<tr>

<td class="box button" data-num='2'>2</td>

<td class="box button" data-num='1'>1</td>

<td class="box button" data-num='0'> 0</td>

<td class="box" id="equals">=</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>

</table>

<script type="text/javascript">

const buttons = document.querySelectorAll('.button');

const answer = document.getElementById('answer');

const equal = document.getElementById('equals');

const clear = document.getElementById('clear');

const sqr = document.getElementById('sqr');

const square = document.getElementById("square");

const den = document.getElementById("den");

const Mr = document.getElementById("mr");

const Ms = document.getElementById("ms");

const Mc = document.getElementById("mc");

const Mplus = document.getElementById("m+");

buttons.forEach(function(btn){

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

let number = btn.getAttribute('data-num');

answer.innerHTML += 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){

answer.innerHTML += event.key;

}

});

equal.addEventListener('click' , equalHandler);

function equalHandler(){

let value1 = eval(answer.innerHTML);

answer.innerHTML = value1;

}

clear.addEventListener('click' , clearHandler);

function clearHandler(){

answer.innerHTML = " ";

};

sqr.addEventListener('click' , squareRoot);

function squareRoot() {

x = parseInt(answer.innerHTML);

answer.innerHTML = Math.sqrt(x);

}

square.addEventListener('click' , square1);

function square1(){

x = parseInt(answer.innerHTML);

answer.innerHTML = Math.pow(x,2);

}

den.addEventListener('click' , denm);

function denm(){

x = parseInt(answer.innerHTML);

answer.innerHTML = 1/x;

}

var num = 0;

Ms.addEventListener('click' , storeNumber);

function storeNumber(){

num = parseInt(answer.innerHTML);

}

Mr.addEventListener('click' , readnumber);

function readnumber(){

answer.innerHTML = num;

}

Mc.addEventListener('click' , clearnumber);

function clearnumber(){

num = 0;

}

Mplus.addEventListener('click' , mplus);

function mplus(){

num = answer.innerHTML;

}

</script>

</body>

</html>