**Advanced Programming Lab 2**

**Submitted By: Daud Nasir Cheema (209563)**

**Code:**

<html>

<head>

<style>

table {

border: 3px solid black;

layout: fixed;

width:33%;

background: lightgray;

border-spacing: 10px;

border-collapse: separate;

}

.answerrow{

background-color: white;

vertical-align: bottom;

text-align:right;

font-size: 20px;

}

td{

border: 2px solid white;

width: 60px;

height: 60px;

background-size : contain;

background-repeat: no-repeat;

font-weight: bold;

text-align: center;

}

</style>

</head>

<body>

<table>

<tr><td colspan="5" id="disp" class= "answerrow" style="background:white"></td></tr>

<tr>

<td onclick="memclear();">MC</td>

<td onclick="button();">0</td>

<td onclick="button();">1</td>

<td onclick="button();">2</td>

<td onclick="button();">+</td>

</tr>

<tr>

<td onclick="savemem();">MS</td>

<td onclick="button();">3</td>

<td onclick="button();">4</td>

<td onclick="button();">5</td>

<td onclick="button();">-</td>

</tr>

<tr>

<td onclick="getmem();">MR</td>

<td onclick="button();">6</td>

<td onclick="button();">7</td>

<td onclick="button();">8</td>

<td onclick="button();">\*</td>

</tr>

<tr>

<td onclick="addstored();">M+</td>

<td onclick="button();">9</td>

<td onclick="signinverse();">+-</td>

<td onclick="myevaluate();">=</td>

<td onclick="button();">/</td>

</tr>

<tr>

<td onclick="reciprocal();">1/X</td>

<td onclick="button();">.</td>

<td onclick="square();">X2</td>

<td onclick="root();">√</td>

<td onclick="myclear();">C</td>

</tr>

</table>

<script>

mem=0;

input=""

display = document.getElementById("disp");

function button(){

input=input+event.target.textContent;

if(event.target.textContent == "."){

display.textContent = input + "0";

}

else{

display.textContent = input;

}

}

function signinverse(){

display.textContent = parseFloat(display.textContent)\*-1;

input = display.textContent.toString();

console.log(input);

}

function memclear(){

mem = 0;

input = "";

display.textContent = "Memory cleared!"

}

function myclear(){

input = "";

display.textContent = ""

}

function validOperand(){

isnum = /^\d+$/.test(display.textContent);

return isnum;

}

function savemem(){

if(validOperand()==true){

mem = display.textContent;

display.textContent = "Saved in memory!";

}

else {

display.textContent = "Error. Expecting Single Operand!";

}

input="";

}

function getmem(){

input=mem;

display.textContent = input;

}

function addstored(){

if(validOperand()==true){

op1 = parseFloat(mem)

op2 = parseFloat(display.textContent);

ans = op1+op2;

mem=ans;

display.textContent = "Memory Modified!";

}

else{

display.textContent = "Error. Expecting Single Operand!";

}

input="";

}

function root(){

if(validOperand()==true){

input = Math.sqrt(input);

display.textContent = input;

}

else{

display.textContent = "Error. Expecting Single Operand!";

}

input="";

}

function square(){

if(validOperand()==true){

input = input\*input;

display.textContent = input;

}

else{

display.textContent = "Error. Expecting Single Operand!";

}

input="";

}

function reciprocal(){

if(validOperand()==true){

input = 1/input;

display.textContent = input;

}

else{

display.textContent = "Error. Expecting Single Operand!";

}

input="";

}

function myevaluate(){

display.textContent = eval(display.textContent);

input="";

}

</script>

</body>

</html>

**Output:**



