**Calculator Task**

HTML Code:

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Calculator</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>

<style>

body{

background-color: beige;

}

.mycalc{

max-width: 320px;

margin: 50px auto;

padding: 20px;

background: #ffffff;

border-radius: 15px;

box-shadow: 2px 2px 10px #aaa;

}

.display{

height: 60px;

background: #c3c3c3;

font-size: 2rem;

text-align: right;

padding: 10px;

border-radius: 5px;

overflow-x: auto;

}

.btn {

width: 70px;

height: 50px;

font-size: 1.2rem;

}

.btn-equal {

background-color: #007bff;

color: white;

}

.btn-op {

color: blue;

}

.btn-clear {

color: red;

}

</style>

</head>

<body>

<div class="mycalc" id="mycalc">

</div>

<script src="script.js"></script>

</body>

</html>

JS code:

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

const display = document.createElement('div');

display.className = 'display mb-3';

display.textContent = '0';

mycalc.appendChild(display);

const layout = [

['C', '←', '.', '×'],

['7', '8', '9', '÷'],

['4', '5', '6', '-'],

['1', '2', '3', '+'],

['0', '00', '=']

];

let expression ='';

layout.forEach(row => {

const rowDiv = document.createElement('div');

rowDiv.className = 'd-flex justify-content-between mb-2';

row.forEach(char => {

const btn = document.createElement('button');

btn.className = 'btn btn-light me-2';

btn.textContent = char;

if (char === 'C') btn.classList.add('btn-clear');

if (['+', '-', '×', '÷'].includes(char)) btn.classList.add('btn-op');

if (char === '=') btn.classList.add('btn-equal', 'flex-grow-1');

btn.addEventListener('click', () => handleInput(char));

rowDiv.appendChild(btn);

});

mycalc.appendChild(rowDiv);

});

document.addEventListener('keydown', (e) => {

const key = e.key;

if (!isAllowedKey(key)) {

alert('Only numbers and valid operators are allowed');

return;

}

if (key === 'Enter') return handleInput('=');

if (key === 'Backspace') return handleInput('←');

if (key === 'c' || key === 'C') return handleInput('C');

if (/^[0-9+\-\*/.%]$/.test(key)) {

const converted = key === '\*' ? '×' : key === '/' ? '÷' : key;

handleInput(converted);

}

else if (key === 'Backspace') {

expression = expression.slice(0, -1);

} else if (key.toLowerCase() === 'c') {

expression = '';

} else {

expression += key;

}

display.textContent = expression || '0';

});

function handleInput(char) {

if (char === 'C') {

expression = '';

} else if (char === '←') {

expression = expression.slice(0, -1);

} else if (char === '=') {

try {

const result = eval(expression.replace(/×/g, '\*').replace(/÷/g, '/'));

expression = result.toString();

} catch {

expression = 'Error';

}

} else {

expression += char;

}

display.textContent = expression || '0';

}

function isAllowedKey(key) {

const allowed = /^[0-9+\-\*/%.]$/;

return allowed.test(key) || ['Enter', 'Backspace', '=', 'c', 'C'].includes(key);

}

Output:

