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| Assignment No : 1 | Submission Date : March. 15, 2025 |
| Assignment Title: Calculator | |

**Code :**

**HTML FILE**

*<div id="calculator">*

*<input id="output">*

*<div id="keys">*

*<button onclick="include('+')" class="operator-btn">+</button>*

*<button onclick="include('7')">7</button>*

*<button onclick="include('8')">8</button>*

*<button onclick="include('9')">9</button>*

*<button onclick="include('-')" class="operator-btn">-</button>*

*<button onclick="include('4')">4</button>*

*<button onclick="include('5')">5</button>*

*<button onclick="include('6')">6</button>*

*<button onclick="include('\*')" class="operator-btn">\*</button>*

*<button onclick="include('1')">1</button>*

*<button onclick="include('2')">2</button>*

*<button onclick="include('3')">3</button>*

*<button onclick="include('/')" class="operator-btn">/</button>*

*<button onclick="include('0')">0</button>*

*<button onclick="include('.')">.</button>*

*<button onclick="calculate()">=</button>*

*<button onclick="clearOutput()" class="operator-btn">C</button>*

*</div>*

*</div>*

**JS FILE**

<script>

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

function include(input){

output.value += input;

}

function clearOutput(){

output.value = "";

}

function calculate(){

try{

output.value = eval(output.value);

}

catch(error){

output.value = "Error";

}

}

</script>

**CSS FILE**

*#calculator{*

*font-family: Arial, sans-serif;*

*background-color: black;*

*border-radius: 15px;*

*max-width: 500px;*

*overflow: hidden;*

*}*

*#output{*

*width: 100%;*

*padding: 20px;*

*font-size: 5rem;*

*text-align: left;*

*border: none;*

*background-color: #3f3f3f;*

*color: white;*

*}*

*#keys{*

*display: grid;*

*gap: 10px;*

*padding: 25px;*

*}*

*button{*

*width: 100px;*

*height: 100px;*

*border-radius: 50px;*

*border: none;*

*background-color: #3f3f3f;*

*color: white;*

*font-size: 3rem;*

*font-weight: bold;*

*cursor: pointer;*

*}*

*button:hover{*

*background-color: #3f3f3f;*

*}*

*button:active{*

*background-color: #3f3f3f;*

*}*

*.operator-btn{*

*background-color: orange;*

*}*

*.operator-btn:hover{*

*background-color: orange;*

*}*

*.operator-btn:active{*

*background-color: orange;*

*}*

**SCREENSHOT**

*A screenshot of a computer

Description automatically generated* **A screenshot of a computer

Description automatically generated A screenshot of a computer

Description automatically generated**

**Dictionary:**

* **eval** - evaluates mathematical expressions.

Ex. Syntax: eval(string)

let x = 10;

let y = 20;

let text = "x + y";

let result = eval(text);

Output: 30

* **try** - defines a code block to run.

Ex. Syntax: try { Block of code to try }

try {

console.log ('hello world!!!');

}

Output: hello world!!!

* **catch** - defines a code block to handle any error.

catch(error) {

console.error("An error occurred:", error);

}

Output: Error has occurred

* **Const** - is to create variables that are immutable.

const OUTPUT= "Hello, world!";

console.log(OUTPUT);

Output: Hello, world!

* **document.getElementById** – it is used to retrieve an HTML element from the document by its unique ID attribute.

div id="myDiv">This is a div element.</div>

<script>

const divElement = document.getElementById("myDiv");

console.log (divElement.textContent);

</script>

Output: This is a div element.