

## Experiment no 11

### Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Calculator</title>
    <style>
        h1 {
            text-align: center;
            padding: 23px;
            background-color: skyblue;
            color: white;
        }
        #clear {
            width: 270px;
            border: 3px solid gray;
            padding: 20px;
            background-color: red;
            color: white;
            font-size: 16px;
            border-radius: 5px;
            cursor: pointer;
        }
        .formstyle {
            width: 300px;
            height: 530px;
            margin: auto;
            border: 3px solid skyblue;
            border-radius: 5px;
            padding: 20px;
        }
        button {
            width: 60px;
            background-color: green;
            color: white;
            border: 3px solid gray;
            border-radius: 5px;
            padding: 20px;
            margin: 5px;
            font-size: 18px;
            cursor: pointer;
        }
        #calc {
            width: 250px;
            font-size: 20px;
```

```

border: 2px solid black;
border-radius: 5px;
padding: 15px;
margin: 10px auto;
}
</style>
</head>
<body>
<h1>Calculator Program in JavaScript</h1>
<div class="formstyle">
<form name="form1">
<input id="calc" type="text" name="answer" readonly><br>

<button type="button" data-value="1">1</button>
<button type="button" data-value="2">2</button>
<button type="button" data-value="3">3</button>
<button type="button" data-value="+">>+</button>
<br>

<button type="button" data-value="4">4</button>
<button type="button" data-value="5">5</button>
<button type="button" data-value="6">6</button>
<button type="button" data-value="-">>-</button>
<br>

<button type="button" data-value="7">7</button>
<button type="button" data-value="8">8</button>
<button type="button" data-value="9">9</button>
<button type="button" data-value="*">>*</button>
<br>

<button type="button" data-value="/">/</button>
<button type="button" data-value="0">0</button>
<button type="button" data-value=".">>.</button>

<button type="button" id="equals">=</button>
<br><br>

<button type="button" id="clear">Clear All</button>
</form>
</div>

<script>
const display = document.getElementById("calc");
const buttons = document.querySelectorAll("button[data-value]");
const clearBtn = document.getElementById("clear");
const equalsBtn = document.getElementById("equals");

```

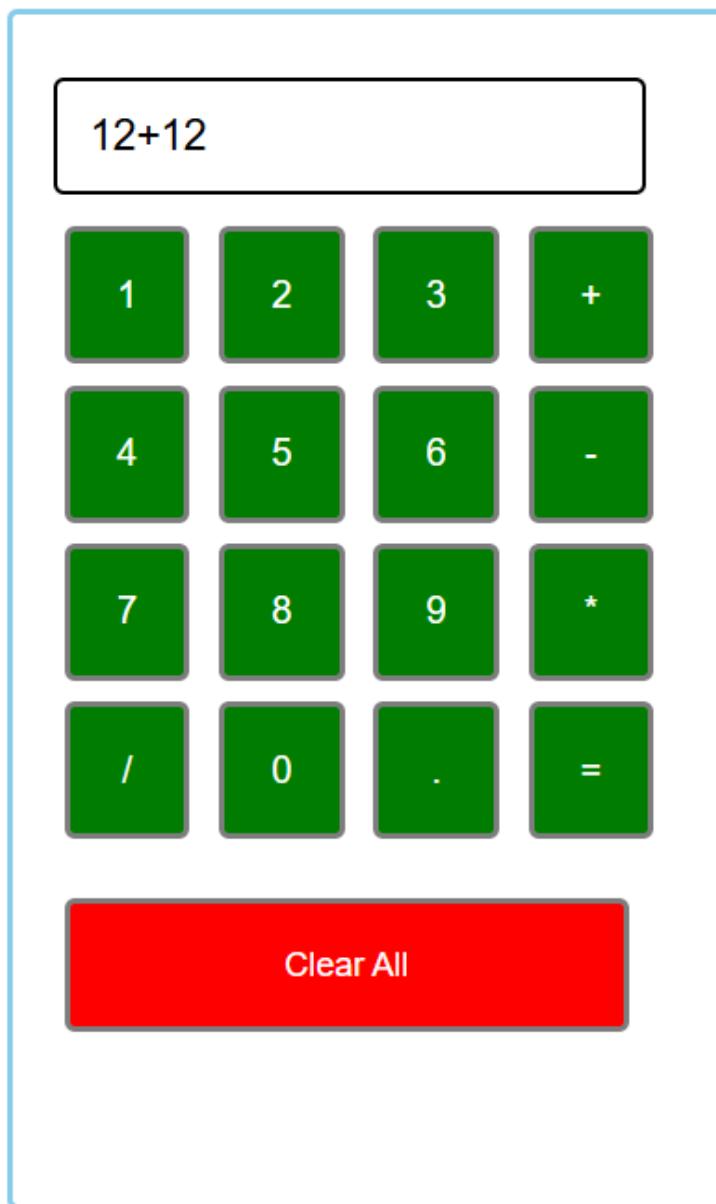
```
// Append values to display
buttons.forEach(button => {
    button.addEventListener("click", () => {
        display.value += button.getAttribute("data-value");
    });
});

// Clear display
clearBtn.addEventListener("click", () => {
    display.value = "";
});

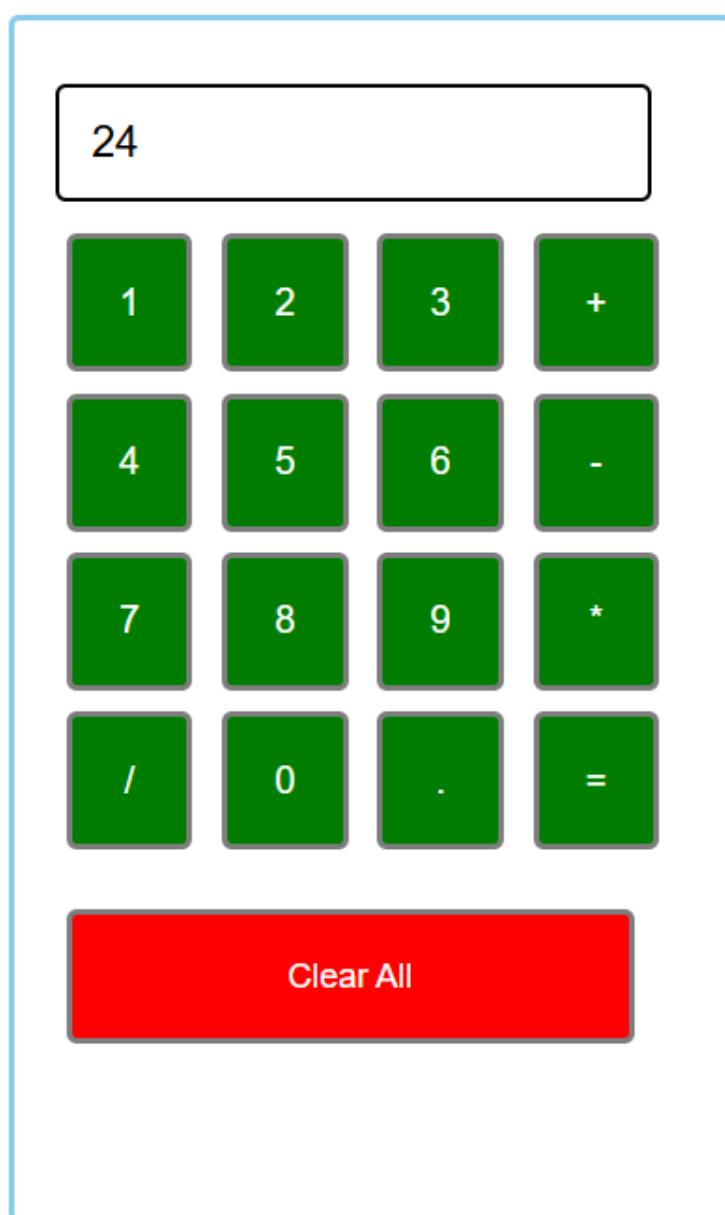
// Calculate result safely
equalsBtn.addEventListener("click", () => {
    try {
        display.value = new Function("return " + display.value)();
    } catch (e) {
        display.value = "Error";
    }
});
</script>
</body>
</html>
```

**Output:**

## Calculator Program in JavaScript



# Calculator Program in JavaScript



## Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Calculator Program in JavaScript</title>
  <style>
```

```
body {  
    font-family: Arial, sans-serif;  
    text-align: center;  
    margin-top: 40px;  
}  
.calculator {  
    display: inline-block;  
    padding: 15px;  
    background: #444;  
    border-radius: 10px;  
}  
#display {  
    width: 100%;  
    height: 50px;  
    font-size: 22px;  
    text-align: right;  

```

```

<table>
  <tr>
    <td><button onclick="clearDisplay()">C</button></td>
    <td><button onclick="backspace()">B</button></td>
    <td><button onclick="appendValue('/')">/</button></td>
    <td><button onclick="appendValue('*')">x</button></td>
  </tr>
  <tr>
    <td><button onclick="appendValue('7')">7</button></td>
    <td><button onclick="appendValue('8')">8</button></td>
    <td><button onclick="appendValue('9')">9</button></td>
    <td><button onclick="appendValue('-')">-</button></td>
  </tr>
  <tr>
    <td><button onclick="appendValue('4')">4</button></td>
    <td><button onclick="appendValue('5')">5</button></td>
    <td><button onclick="appendValue('6')">6</button></td>
    <td><button onclick="appendValue('+')">+</button></td>
  </tr>
  <tr>
    <td><button onclick="appendValue('1')">1</button></td>
    <td><button onclick="appendValue('2')">2</button></td>
    <td><button onclick="appendValue('3')">3</button></td>
    <td rowspan="2"><button class="equal" onclick="calculateResult()">=</button></td>
  </tr>
  <tr>
    <td colspan="2"><button style="width:128px;" onclick="appendValue('0')">0</button></td>
    <td><button onclick="appendValue('.')">.</button></td>
  </tr>
</table>
</div>

<script>
const display = document.getElementById("display");

function appendValue(value) {
  display.value += value;
}

function clearDisplay() {
  display.value = "";
}

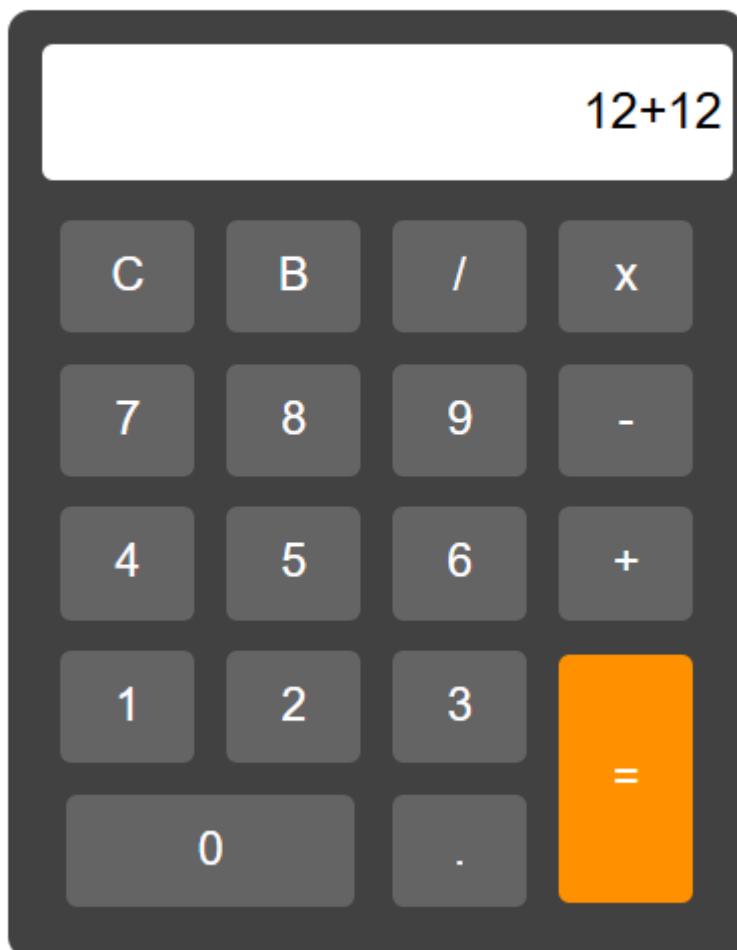
function backspace() {
  display.value = display.value.slice(0, -1);
}

```

```
function calculateResult() {  
    try {  
        display.value = eval(display.value);  
    } catch {  
        display.value = "Error";  
    }  
}  
</script>  
</body>  
</html>
```

**Output:**

## Calculator Program in JavaScript



# Calculator Program in JavaScript

