

## 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

12+12

1	2	3	+
4	5	6	-
7	8	9	*
/	0	.	=

Clear All

# Calculator Program in JavaScript

1	2	3	+
4	5	6	-
7	8	9	*
/	0	.	=

Clear All

## 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;
  margin-bottom: 10px;
  border: none;
  border-radius: 5px;
  padding: 5px;
}
table {
  margin: auto;
}
button {
  width: 60px;
  height: 50px;
  font-size: 20px;
  margin: 5px;
  border: none;
  border-radius: 5px;
  cursor: pointer;
  background: #666;
  color: white;
}
button:hover {
  background: #888;
}
.equal {
  height: 110px;
  background: #ff9500;
}
</style>
</head>
<body>
<h2>Calculator Program in JavaScript</h2>
<div class="calculator">
  <input type="text" id="display" readonly>

```

```

<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;"
onlick="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 = "";
  }

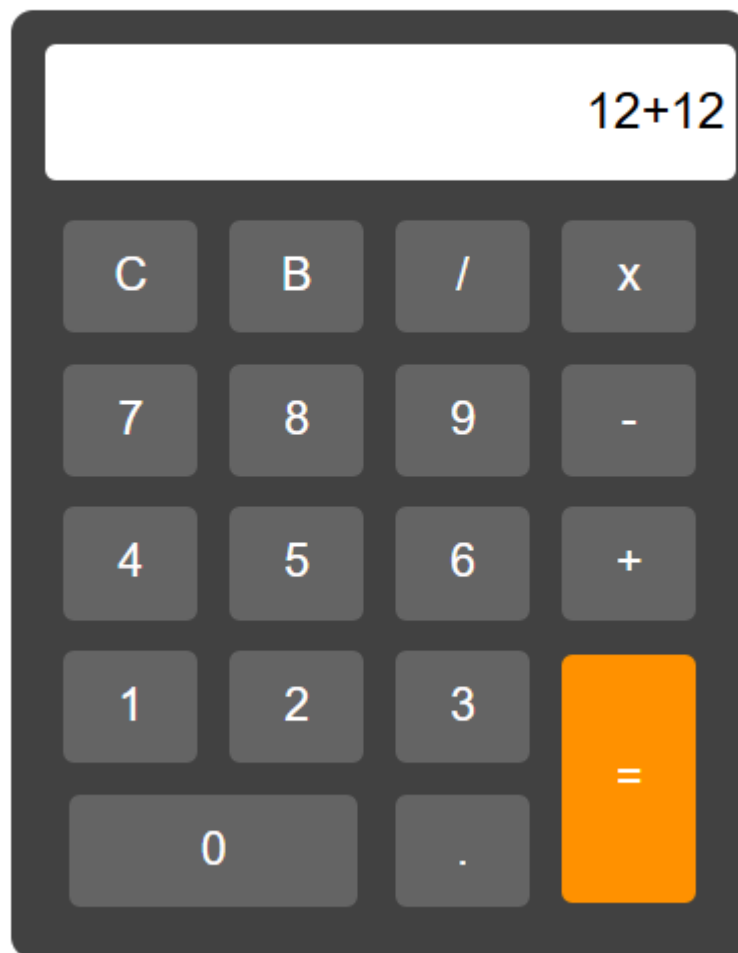
  function backspace() {
    display.value = display.value.slice(0, -1);
  }

```

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

**Output:**

## Calculator Program in JavaScript



## Calculator Program in JavaScript

