

Lahore Garrison University

DHA Phase 6 Lahore

Lab Task 8



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Section	G
Subject	Web Technologies Lab
Instructor Name	Mr. M Yousaf

Lab 8 Deliverable: Simple Calculator App

```
<!DOCTYPE html>
<html>
<head>
  <title>Calculator</title>
```

CSS:

```
<style>
  #calcBox {
    width: 254px;
    height: 50px;
    border: 1px solid #000;
    padding: 5px;
    display: flex;
    justify-content: space-between;
    align-items: center;
    font-size: 18px;
    margin-bottom: 10px;
  }

  button {
    width: 60px;
    height: 40px;
    margin: 2px;
    font-size: 16px;
  }
</style>
</head>
<body>

<h2>Calculator</h2>

<div id="calcBox">
  <span id="inputSpan"></span>
  <span id="outputSpan" style="margin-top: 39px;">0</span>
</div>

<!-- SAME BUTTONS but now each has an ID -->
<div>
  <button id="btn7">7</button>
  <button id="btn8">8</button>
  <button id="btn9">9</button>
  <button id="btnDivide">/</button>
</div>
```

```
<div>
  <button id="btn4">4</button>
  <button id="btn5">5</button>
  <button id="btn6">6</button>
  <button id="btnMultiply">*</button>
</div>
```

```
<div>
  <button id="btn1">1</button>
  <button id="btn2">2</button>
  <button id="btn3">3</button>
  <button id="btnMinus">-</button>
</div>
```

```
<div>
  <button id="btn0">0</button>
  <button id="btnDot">.</button>
  <button id="equalBtn">=</button>
  <button id="btnPlus">+</button>
</div>
```

```
<div>
  <button id="clearBtn">C</button>
</div>
```

Java-Script:

```
<script>
```

```
let inputValue = "";
```

```
const inputSpan = document.getElementById('inputSpan');
const outputSpan = document.getElementById('outputSpan');
```

```
function press(value) {
  inputValue += value;
  inputSpan.innerText = inputValue;
}
```

```
document.getElementById("btn7").addEventListener("click", () => press("7"));
document.getElementById("btn8").addEventListener("click", () => press("8"));
document.getElementById("btn9").addEventListener("click", () => press("9"));
document.getElementById("btnDivide").addEventListener("click", () => press("/"));
```

```
document.getElementById("btn4").addEventListener("click", () => press("4"));
document.getElementById("btn5").addEventListener("click", () => press("5"));
document.getElementById("btn6").addEventListener("click", () => press("6"));
document.getElementById("btnMultiply").addEventListener("click", () => press("*"));
```

```

document.getElementById("btn1").addEventListener("click", () => press("1"));
document.getElementById("btn2").addEventListener("click", () => press("2"));
document.getElementById("btn3").addEventListener("click", () => press("3"));
document.getElementById("btnMinus").addEventListener("click", () => press("-"));

document.getElementById("btn0").addEventListener("click", () => press("0"));
document.getElementById("btnDot").addEventListener("click", () => press("."));
document.getElementById("btnPlus").addEventListener("click", () => press("+"));

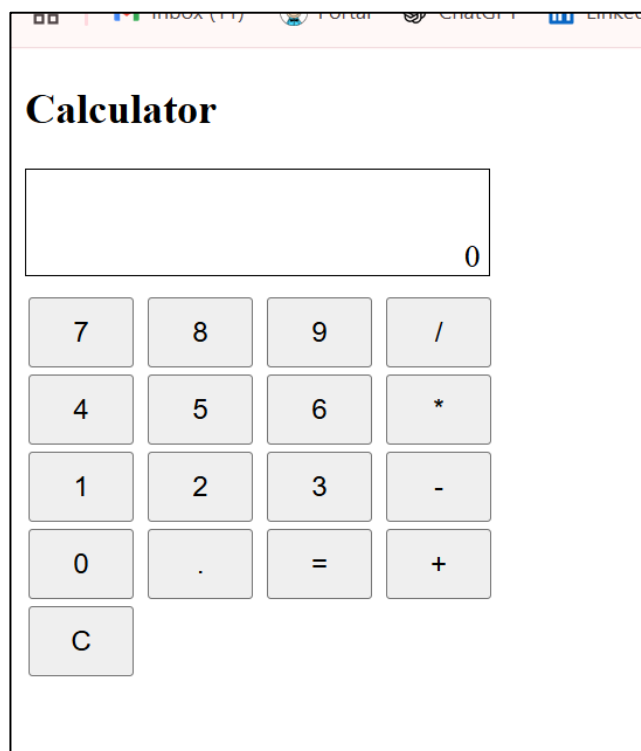
document.getElementById("equalBtn").addEventListener("click", () => {
  try {
    const result = eval(inputValue);
    outputSpan.innerText = result;
  } catch (err) {
    outputSpan.innerText = "Error!";
  }
});

document.getElementById("clearBtn").addEventListener("click", () => {
  inputValue = "";
  inputSpan.innerText = "";
  outputSpan.innerText = "0";
});
</script>

</body>
</html>

```

Output:



CONCLUSION:

In this lab, I used JavaScript variables, functions, and events to make a working calculator. I updated the webpage dynamically using DOM manipulation to show input and calculated results.

RUBRICS:

Performance			Lab Report		
Description	Total Marks	Marks Obtained	Description	Total Marks	Marks Obtained
Ability to Conduct practical	5		Structure	5	
Data Analysis & Interpretation	5		Efficiency	5	
Total Marks obtained			Total Marks Obtained		

Instructor Signature _____