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1. HTML Structure
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Simple Calculator</title>
<link rel="stylesheet" href="style.css"> <!-- Optional, for styling -->
</head>
<body>
<div class="calculator">
<input type="text" id="num1" placeholder="Enter first number">
<input type="text" id="num2" placeholder="Enter second number">
<div class="buttons">
<button onclick="calculate('add')">+</button>
<button onclick="calculate('subtract')">-</button>
<button onclick="calculate('multiply')">*</button>
<button onclick="calculate('divide')">/</button>
</div>
<div id="result">Result: </div>
</div>
<script src="script.js"></script>
</body>
</html>
2. CSS
(Optional) Create a style.css file to style the calculator:
body {
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font-family: Arial, sans-serif;
text-align: center;
padding: 50px;
}
.calculator {
display: inline-block;
padding: 20px;
border: 2px solid #ccc;
border-radius: 10px;
}
input {
margin: 10px;
padding: 10px;
width: 150px;
}
button {
padding: 10px 20px;
margin: 5px;
cursor: pointer;
font-size: 18px;
}
button:hover {
background-color: #ddd;
}
3. JavaScript Code for Functionality
function calculate(operation) {
// Get the values of the input fields
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let num1 = parseFloat(document.getElementById('num1').value);
let num2 = parseFloat(document.getElementById('num2').value);
let result = 0;
// Check if both inputs are valid numbers
if (isNaN(num1) || isNaN(num2)) {
document.getElementById('result').innerText = "Please enter valid numbers.";
return;
}
// Perform calculation based on the operation
switch (operation) {
case 'add':
result = num1 + num2;
break;
case 'subtract':
result = num1 - num2;
break;
case 'multiply':
result = num1 * num2;
break;
case 'divide':
// Error handling for division by zero
if (num2 === 0) {
document.getElementById('result').innerText = "Error: Division by zero.";
return;
result = num1 / num2;
break;
```

```
}
// Display the result
document.getElementById('result').innerText = "Result: " + result;
}
```