

JAVA SCRIPT

Exercise: - Create a Basic Calculator (Add, Subtract, Multiply, Divide) using HTML, CSS and Java Script.

Instructions: -

- Use Internal CSS and align all element in center of body
- Use the HTML Form elements to create calculator.
- Create a java script to perform basic operations.

Code: -

```
1. <!DOCTYPE html>
2. <html>
3. <head>
4.     <title>JavaScript Basic Calculator</title>
5.     <style>
6.         body {
7.             font-family: Arial, sans-serif;
8.             text-align: center;
9.             margin: 50px;
10.        }
11.        input, button {
12.            margin: 10px;
13.            padding: 10px;
14.            font-size: 16px;
15.        }
16.    </style>
17. </head>
18. <body>
19.     <h2>JavaScript Exercise: Simple Calculator</h2>
20.     <p>Enter two numbers and choose an operation:</p>
21.
22.     <input type="number" id="num1" placeholder="Enter first number">
23.     <input type="number" id="num2" placeholder="Enter second number">
24.
25.     <br>
26.     <button onclick="calculate('add')">Add</button>
27.     <button onclick="calculate('subtract')">Subtract</button>
28.     <button onclick="calculate('multiply')">Multiply</button>
29.     <button onclick="calculate('divide')">Divide</button>
30.
31.     <h3>Result: <span id="result">?</span></h3>
32.
33.     <script>
34.         function calculate(operation) {
35.             let num1 = parseFloat(document.getElementById('num1').value);
36.             let num2 = parseFloat(document.getElementById('num2').value);
37.             let result;
38.
39.             if (isNaN(num1) || isNaN(num2)) {
40.                 result = 'Please enter valid numbers';
41.             } else {
```

```

42.         switch (operation) {
43.             case 'add':
44.                 result = num1 + num2;
45.                 break;
46.             case 'subtract':
47.                 result = num1 - num2;
48.                 break;
49.             case 'multiply':
50.                 result = num1 * num2;
51.                 break;
52.             case 'divide':
53.                 result = num2 !== 0 ? num1 / num2 : 'Cannot divide by
zero';
54.                 break;
55.             default:
56.                 result = 'Invalid operation';
57.         }
58.     }
59.     document.getElementById('result').innerText = result;
60. }
61. </script>
62. </body>
63. </html>
64.

```

Note: -

- **<input type="number">** allows only to enter the numbers.
- **document.getElementById()** Fetches the values from the input fields using id of html element.
- **parseFloat()** Converts given input values into numbers.