```html
<!-- File: calculator.html -->
<!DOCTYPE html>
<html>
<head>
  <title>Simple JavaScript Calculator</title>
  <style>
    body {
      font-family: Arial;
      background: #f2f2f2;
      text-align: center;
      margin-top: 50px;
    }
    #calculator {
      display: inline-block;
      background: #fff;
      padding: 20px;
      border-radius: 10px;
      box-shadow: 0px 0px 10px #ccc;
    }
    input[type="text"] {
      width: 200px;
      padding: 10px;
      font-size: 18px;
      margin-bottom: 15px;
    }
    button {
      padding: 10px 15px;
      margin: 5px;
      font-size: 16px;
      cursor: pointer;
      border: none;
      background-color: #007bff;
      color: white;
      border-radius: 5px;
```

```html
        }
      button:hover {
        background-color: #0056b3;
      }
    </style>
  </head>
  <body>

    <div id="calculator">
      <h2>Simple Calculator</h2>
      <input type="text" id="num1" placeholder="Enter number 1"><br>
      <input type="text" id="num2" placeholder="Enter number 2"><br>

      <button onclick="calculate('add')">Add</button>
      <button onclick="calculate('sub')">Subtract</button>
      <button onclick="calculate('mul')">Multiply</button>
      <button onclick="calculate('div')">Divide</button>
      <button onclick="square()">Square</button>
    </div>

    <script>
      // File: calculator.html

      function calculate(operation) {
        let n1 = document.getElementById("num1").value;
        let n2 = document.getElementById("num2").value;

        if (n1 === "" || n2 === "") {
          alert("Please enter both numbers!");
          return;
        }

        if (isNaN(n1) || isNaN(n2)) {
          alert("Invalid input! Please enter numeric values.");
```

```javascript
      return;
    }


  n1 = parseFloat(n1);
  n2 = parseFloat(n2);
  let result;

  switch (operation) {
    case 'add':
      result = n1 + n2;
      break;
    case 'sub':
      result = n1 - n2;
      break;
    case 'mul':
      result = n1 * n2;
      break;
    case 'div':
      if (n2 === 0) {
        alert("Cannot divide by zero!");
        return;
      }
      result = n1 / n2;
      break;
  }

  alert("The result is: " + result);
}

function square() {
  let num = prompt("Enter a number to find its square:");
  if (num === null || num.trim() === "") {
    alert("No input provided.");
    return;
```

```
      }

    if (isNaN(num)) {

      alert("Invalid input! Please enter a number.");

      return;

    }


    let sq = parseFloat(num) ** 2;

    alert("Square of " + num + " is: " + sq);

    }
</script>


</body>
</html>
```


Simple Calculator

```
5
```

```
2
```

Add Subtract Multiply Divide Square