CODE: <!DOCTYPE html>

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>BMI Calculator</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      padding: 20px;
      background-color: #f4f4f4;
    }
    .container {
      max-width: 400px;
      margin: auto;
      background: #fff;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }
    input, button {
      margin: 10px 0;
      display: block;
      width: 100%;
      padding: 10px;
      font-size: 16px;
    }
    .result {
      font-weight: bold;
      margin-top: 10px;
      text-align: center;
    }
```

```html
    </style>
</head>
<body>
    <div class="container">
        <h2>BMI Calculator</h2>
        <input type="number" id="weight" placeholder="Weight in kilograms" required>
        <input type="number" id="height" placeholder="Height in meters" step="0.01" required>
        <button onclick="calculateBMI()">Calculate BMI</button>
        <p class="result" id="weightResult"></p>
        <p class="result" id="heightResult"></p>
        <p class="result" id="bmiResult"></p>
        <p class="result" id="categoryResult"></p>
    </div>
    <script>
        function calculateBMI() {
            var weight = parseFloat(document.getElementById('weight').value);
            var height = parseFloat(document.getElementById('height').value);

            if (isNaN(weight) || isNaN(height) || weight <= 0 || height <= 0) {
                alert('Please enter valid positive numbers for weight and height.');
                return;
            }

            var bmi = weight / (height * height);
            var category = '';

            if (bmi < 18.5) {
                category = 'Underweight';
            } else if (bmi >= 18.5 && bmi < 24.9) {
                category = 'Normal weight';
            } else if (bmi >= 25 && bmi < 29.9) {
                category = 'Overweight';
```
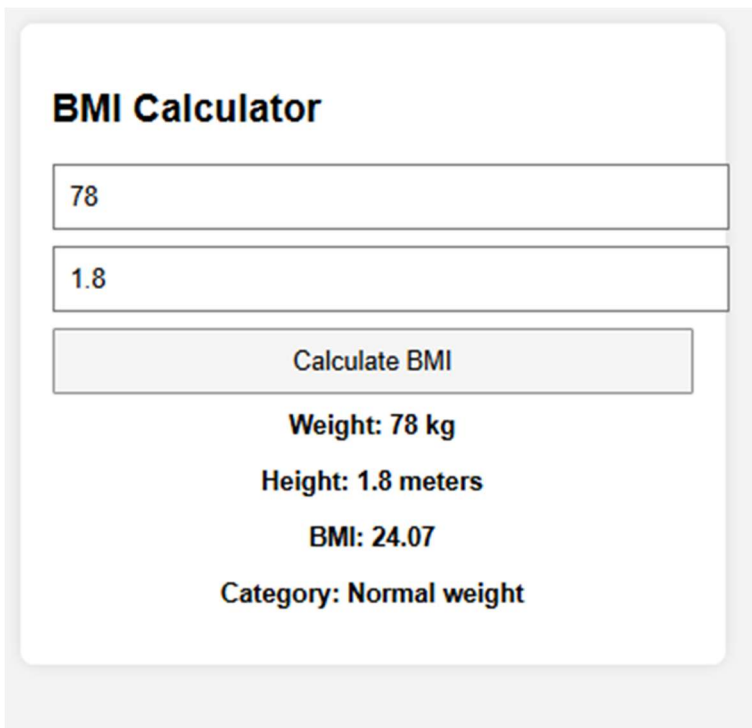
```
        } else {

            category = 'Obesity';

        }


        document.getElementById('weightResult').innerText = 'Weight: ' + weight + ' kg';

        document.getElementById('heightResult').innerText = 'Height: ' + height + ' meters';

        document.getElementById('bmiResult').innerText = 'BMI: ' + bmi.toFixed(2);

        document.getElementById('categoryResult').innerText = 'Category: ' + category;

    }
  </script>
</body>
</html>
```

OUTPUT: