LAB - 5
Name - Eishaan Khatri
Roll No. 22mc3014

Q1

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <style>
   body {
     display: flex;
     flex-direction: column;
     align-items: center;
     justify-content: center;
     height: 100vh;
     margin: 0;
   }

   #output {
     transition: transform 0.5s ease-in-out;
   }

   .spin {
     animation: spin 2s linear infinite;
   }

   @keyframes spin {
    0% {
     transform: rotate(0deg);
    }
    100% {
     transform: rotate(360deg);
    }
   }
  </style>
  <title>Word Spinner</title>
</head>
<body>

  <h2 id="output">Hello</h2>
  <input type="text" id="textInput" placeholder="Enter a word or phrase">
```
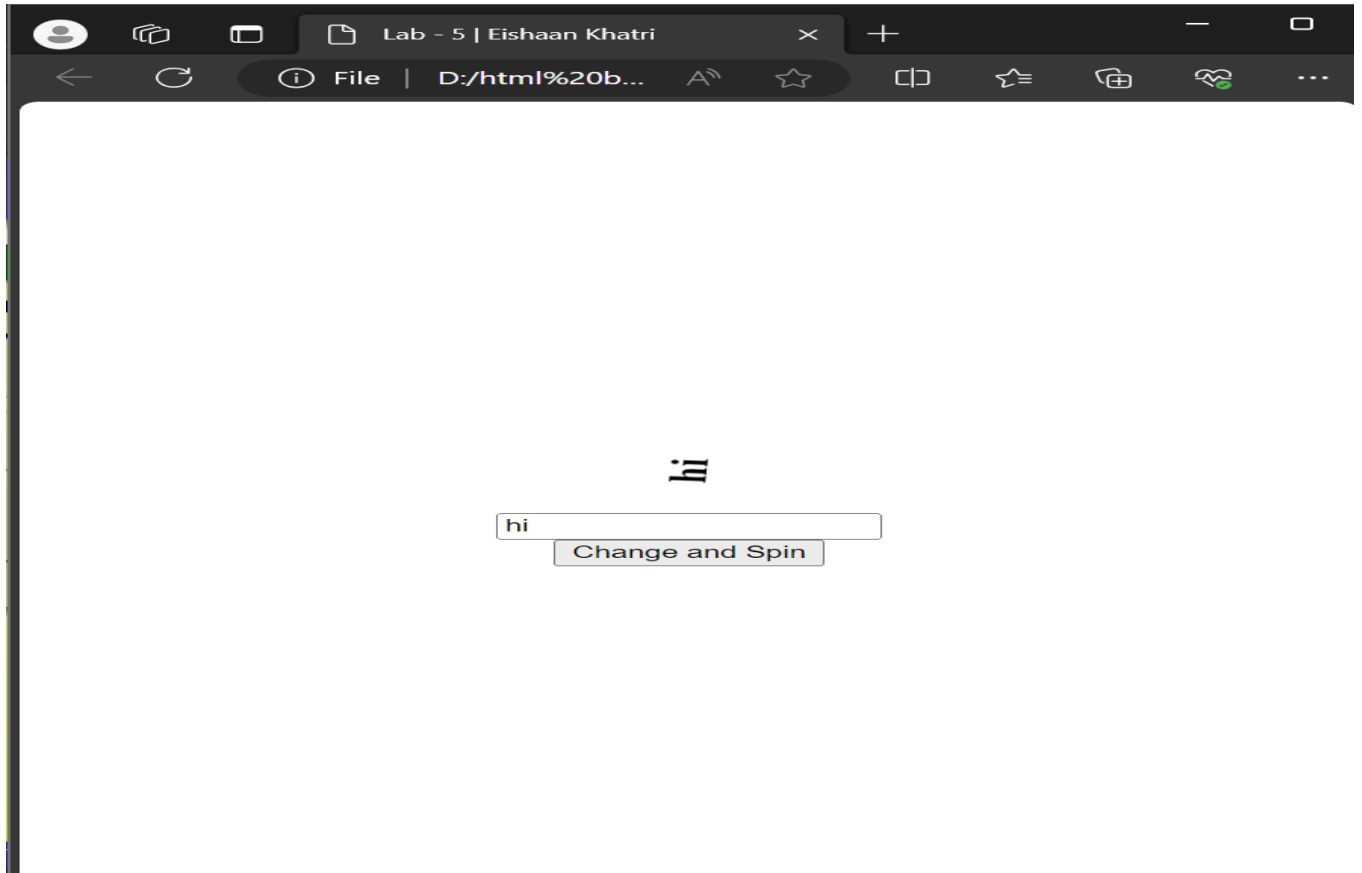
```html
<button onclick="changeText()">Change and Spin</button>

<script>
  function changeText() {
    const inputElement = document.getElementById('textInput');
    const outputElement = document.getElementById('output');

    const inputValue = inputElement.value.trim();
    if (inputValue !== '') {
      outputElement.textContent = inputValue;

      // Add the 'spin' class to trigger the animation
      outputElement.classList.add('spin');

      // Remove the 'spin' class after the animation completes
      setTimeout(() => {
        outputElement.classList.remove('spin');
      }, 2000); // Adjust the duration to match the animation duration
    }
  }
</script>
</body>
</html>
```

hi

hi

Change and Spin

Q2)

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Lab - 5 | Eishaan Khatri</title>
<style>
    #count {
        font-size: 16px; /* Initial font size */
    }
</style>
</head>
<body>

<p id="count">0</p>
<button onclick="incrementCount()">Increment Count</button>

<script>
```
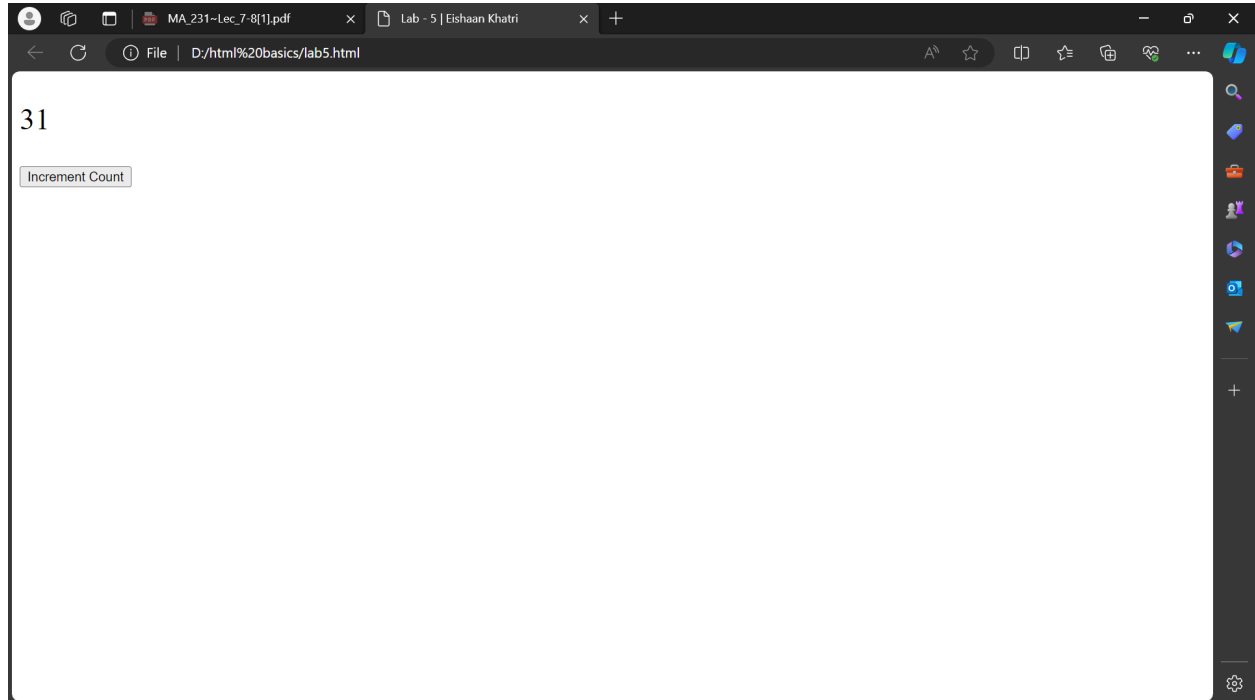
```
    let count = 20;

    function incrementCount() {
        count++;
        document.getElementById('count').innerText = count;
        document.getElementById('count').style.fontSize = count + 'px';
    }
</script>

</body>
</html>
```


Q3)

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Lab - 5 | Eishaan Khatri</title>
<style>
```

```html
        #count {
            font-size: 16px; /* Initial font size */
        }
</style>
</head>
<body>

<ul id="countList">
    <!-- List of numbers will be added here -->
</ul>
<button onclick="incrementCount()">Increment Count</button>

<script>
    let count = 10;
    const countList = document.getElementById('countList');

    function incrementCount() {
        count++;
        const newItem = document.createElement('li');
        newItem.innerText = count;
        newItem.style.fontSize = count + 'px';
        countList.appendChild(newItem);
    }
</script>

</body>
</html>
```
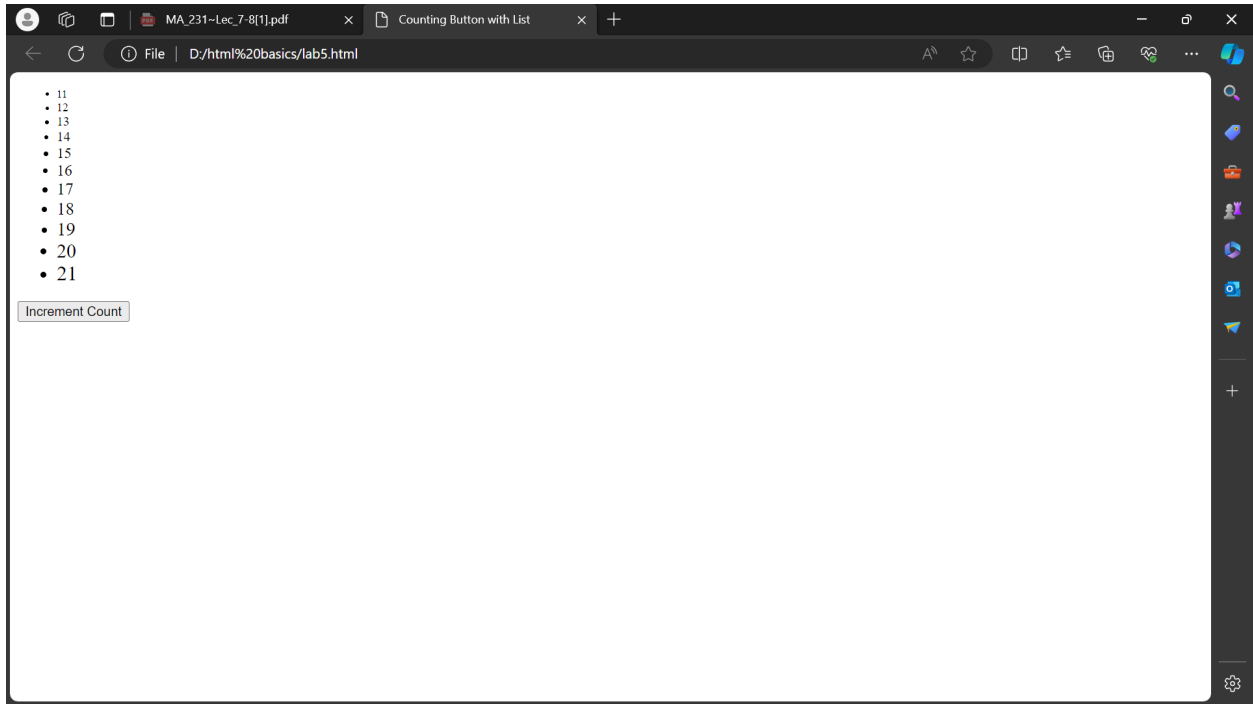
Q4)

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Lab - 5 | Eishaan Khatri</title>

  <style>
    body {
      display: flex;
      align-items: center;
      justify-content: center;
      height: 100vh;
      margin: 0;
    }

    table {
      border-collapse: collapse;
      width: 300px;
      text-align: center;
    }
```

```css
    th, td {
      border: 1px solid #ddd;
      padding: 8px;
    }

    th {
      background-color: #f2f2f2;
    }

    button {
      margin-top: 10px;
      padding: 10px;
      cursor: pointer;
    }
  </style>
</head>
<body>

  <table id="myTable">
    <thead>
      <tr>
        <th>Value 1</th>
        <th>Value 2</th>
        <th>Sum</th>
      </tr>
    </thead>
    <tbody>
      <!-- Initial rows (you can leave this empty or pre-fill with some
values) -->
    </tbody>
  </table>

  <button onclick="addRow()">Add Row</button>

  <script>
    function addRow() {
      var table = document.getElementById("myTable");
      var tbody = table.getElementsByTagName("tbody")[0];
```

```
        var rowCount = tbody.rows.length;

        // Create a new row
        var newRow = tbody.insertRow(rowCount);

        // Add cells to the new row
        var cell1 = newRow.insertCell(0);
        var cell2 = newRow.insertCell(1);
        var cell3 = newRow.insertCell(2);

        // Prompt user for input and update cells
        var value1 = parseFloat(prompt("Enter Value 1") || 0);
        var value2 = parseFloat(prompt("Enter Value 2") || 0);

        cell1.innerText = value1;
        cell2.innerText = value2;
        cell3.innerText = value1 + value2;

        // Optionally, you can clear previous inputs
        if (rowCount > 1) {
          var prevRow = newRow.previousSibling;
          var prevValue1 = parseFloat(prevRow.cells[0].innerText) || 0;
          var prevValue2 = parseFloat(prevRow.cells[1].innerText) || 0;

          // Update the sum in the row before the new one
          prevRow.cells[2].innerText = prevValue1 + prevValue2;
        }
      }
  </script>

</body>
</html>
```
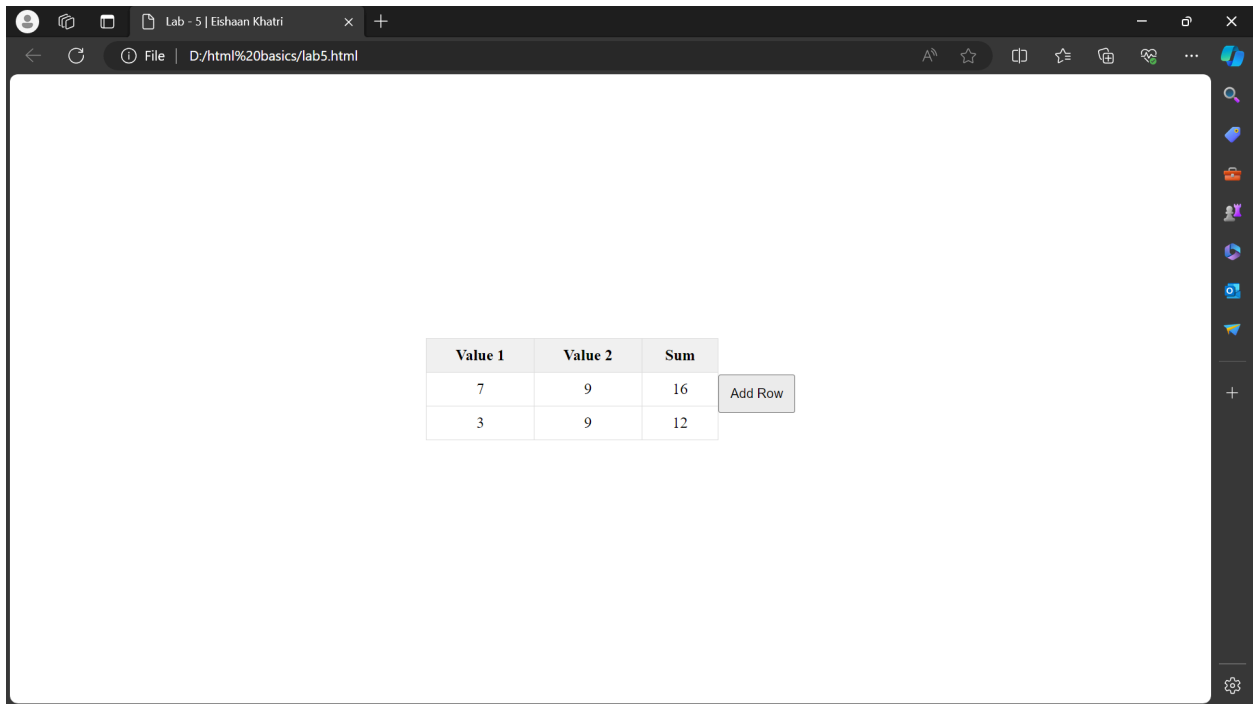
Q5

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Lab - 5 | Eishaan Khatri</title>

  <style>
    body {
      display: flex;
      align-items: center;
      justify-content: center;
      height: 100vh;
      margin: 0;
    }

    input, button {
      margin: 5px;
      padding: 8px;
    }

    #result {
```

```
        margin-top: 10px;
    }
  </style>
</head>
<body>

  <input type="text" id="input1" placeholder="Enter value 1">
  <input type="text" id="input2" placeholder="Enter value 2">

  <br>

  <button onclick="performOperation('+')">+</button>
  <button onclick="performOperation('-')">-</button>
  <button onclick="performOperation('*')">*</button>
  <button onclick="performOperation('/')">/</button>

  <div id="result"></div>

  <script>
    function performOperation(operator) {
      var input1 =
Number.parseInt(document.getElementById("input1").value) || 0;
      var input2 =
Number.parseInt(document.getElementById("input2").value) || 0;

      var resultElement = document.getElementById("result");
      var result;

      switch (operator) {
        case '+':
          result = input1 + input2;
          break;
        case '-':
          result = input1 - input2;
          break;
        case '*':
          result = input1 * input2;
          break;
        case '/':
```
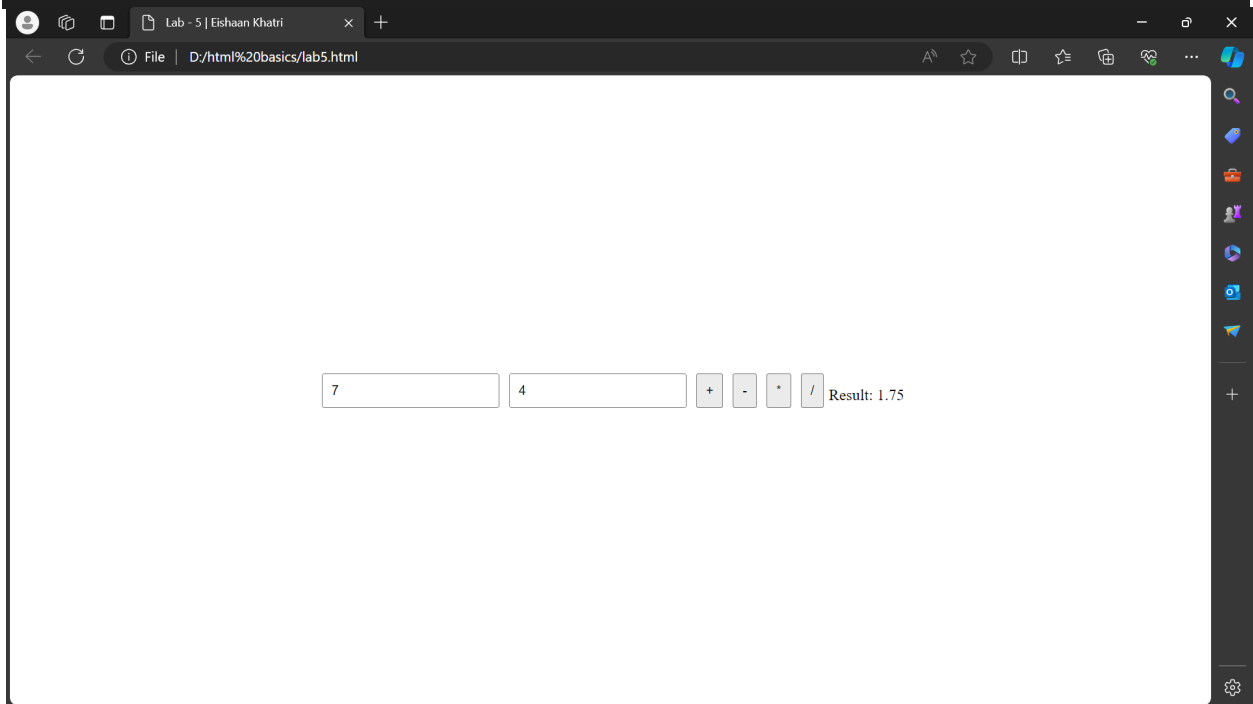
```
        result = input2 !== 0 ? input1 / input2 : 'Cannot divide by
zero';

        break;
      default:
        result = 'Invalid operation';
    }


    resultElement.innerText = 'Result: ' + result;
  }
 </script>


</body>
</html>
```


Q6

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Toggle Content</title>
<style>
  body {
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    background-color: #f5f5f5;
    margin: 0;
    padding: 0;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
  }

  #container {
    text-align: center;
  }

  #showContentButton {
    background-color: #00ffff;
    color: white;
    border: none;
    padding: 15px 30px;
    font-size: 18px;
    cursor: pointer;
    border-radius: 8px;
    transition: background-color 0.3s ease;
    outline: none;
    box-shadow: 0px 1px 10px rgba(0, 0, 0, 0.2);
  }

  #showContentButton:hover {
    background-color: #452049;
  }

  #hiddenContent {
    display: none;
    margin-top: 20px;
    background-color: #fff;
    padding: 30px;
    border-radius: 11px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
  }

  #hiddenContent h1 {
    color: #4CAF50;
    margin-bottom: 20px;
  }

  #hiddenContent p {
    color: #666;
    font-size: 16px;
    line-height: 1.6;
    margin-bottom: 20px;
  }

  #hiddenContent ol {
    list-style-type: upper-roman;
    color: #666;
    font-size: 16px;
    line-height: 1.6;
    margin: 0;
    padding: 0;
  }

  #hiddenContent li {
    margin-bottom: 10px;
  }
</style>
</head>
<body>

<div id="container">
  <button id="showContentButton">Click Here</button>

  <div id="hiddenContent">
    <h1>I am Nishant</h1>
    <p>This is a Web Development Lab:</p>
    <ol type="I">
      <li>This is HTML & CSS</li>
      <li>This is JAVASCRIPT</li>
    </ol>
  </div>
</div>

<script>
  document.getElementById("showContentButton").addEventListener("click", function() {
    var content = document.getElementById("hiddenContent");
    if (content.style.display === "none") {
      content.style.display = "block";
    } else {
      content.style.display = "none";
    }
  });
</script>

</body>
</html>
```

Q7

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Lab - 5 | Eishaan Khatri</title>

  <style>
    body {
      display: flex;
      align-items: center;
      justify-content: center;
      height: 100vh;
      margin: 0;
      font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
      background-color: #f5f5f5;
    }

    form {
      text-align: center;
      padding: 20px;
      border: 1px solid #ddd;
      border-radius: 10px;
      background-color: #fff;
      box-shadow: 0 0 15px rgba(0, 0, 0, 0.1);
    }

    input, button {
      margin: 10px;
      padding: 10px;
      font-size: 16px;
      width: 100%;
      box-sizing: border-box;
    }

    button {
      background-color: #4caf50;
      color: #fff;
      cursor: pointer;
```

```css
      transition: background-color 0.3s;
    }

    button:hover {
      background-color: #45a049;
    }

    #result {
      font-size: 18px;
      font-weight: bold;
      margin-top: 20px;
      text-align: left;
    }
  </style>
</head>
<body>

  <form id="tipForm">
    <label for="billAmount">Bill Amount: $</label>
    <input type="number" id="billAmount" required>

    <label for="tipPercentage">Tip Percentage: %</label>
    <input type="number" id="tipPercentage" required>

    <label for="numOfPeople">Number of People:</label>
    <input type="number" id="numOfPeople" required>

    <button type="button" onclick="calculateTip()">Calculate Tip</button>

    <div id="result"></div>
  </form>

  <script>
    function calculateTip() {
      var billAmount =
parseFloat(document.getElementById("billAmount").value) || 0;
      var tipPercentage =
parseFloat(document.getElementById("tipPercentage").value) || 0;
      var numOfPeople =
parseInt(document.getElementById("numOfPeople").value) || 1;
```

```
      var tipAmount = (billAmount * tipPercentage) / 100;
      var totalAmount = billAmount + tipAmount;
      var tipPerPerson = tipAmount / numOfPeople;
      var totalPerPerson = totalAmount / numOfPeople;

      var resultElement = document.getElementById("result");
      resultElement.innerHTML = `
        <div style="background-color: #4caf50; color: #fff; padding: 10px;
border-radius: 5px; margin-bottom: 10px;">
          <strong>Tip Information</strong>
        </div>
        <p>Tip Amount: $${tipAmount.toFixed(2)}</p>
        <p>Total Amount: $${totalAmount.toFixed(2)}</p>
        <p>Tip per Person: $${tipPerPerson.toFixed(2)}</p>
        <p>Total per Person: $${totalPerPerson.toFixed(2)}
      `;
    }
  </script>

</body>
</html>
```

Bill Amount: $

6

Tip Percentage: %

3

Number of People:

2

Calculate Tip

Tip Information

Tip Amount: $0.18

Total Amount: $6.18

Tip per Person: $0.09

Total per Person: $3.09