WEB TECHNOLOGY LAB-5

AVIRAM YADAV
22CS3019
CSE

Q1

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

    .container {
        text-align: center;
    }

    h2 {
        font-size: 24px;
        margin-bottom: 20px;
        animation: spin 1s infinite linear;
    }

    @keyframes spin {
        from {
            transform: rotate(0deg);
```

```html
        }
        to {
            transform: rotate(360deg);
        }
    }
</style>
</head>
<body>

<div class="container">
    <h2 id="word">Hello</h2>
    <input type="text" id="textInput" placeholder="Enter a word or phrase">
    <button onclick="changeWord()">Change Word</button>
</div>

<script>
function changeWord() {
    var input = document.getElementById("textInput").value;
    if (input !== "") {
        document.getElementById("word").innerText = input;
    }
}
</script>

</body>
</html>
```
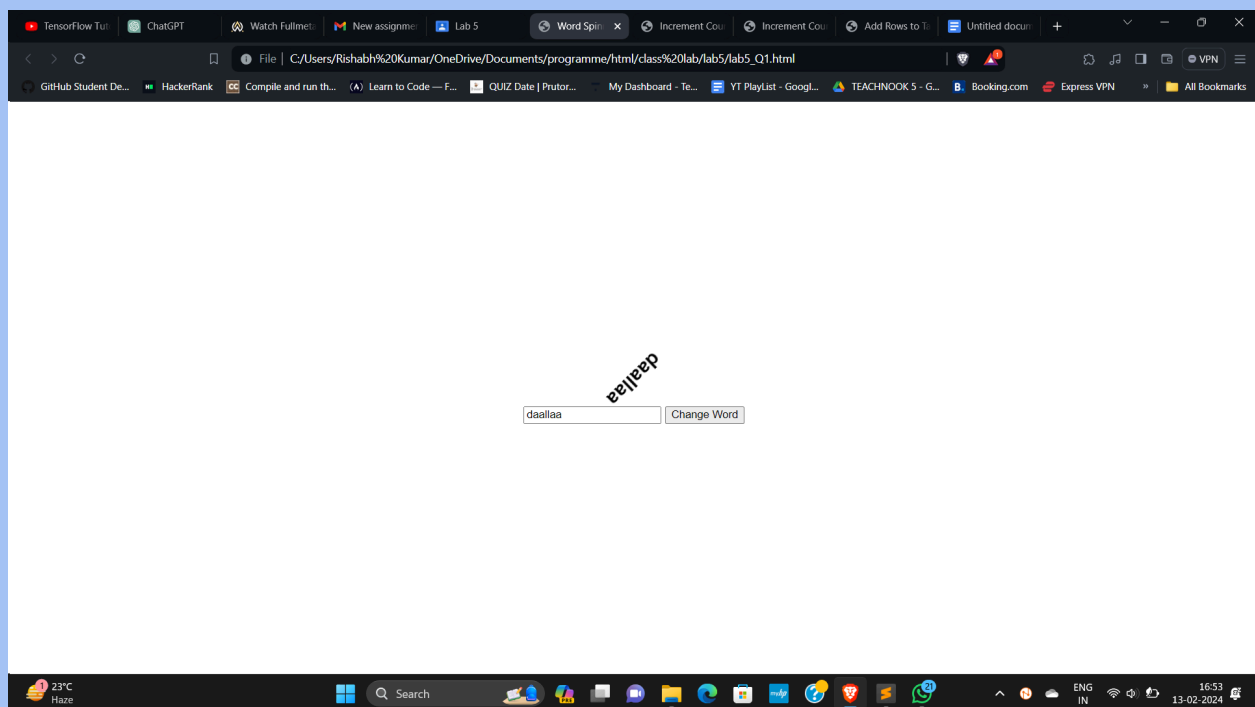
Q2

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Increment Counter</title>
<style>
    body {
        font-family: Arial, sans-serif;
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
        margin: 0;
    }

    p {
        font-size: 16px;
        transition: font-size 0.3s ease-in-out;
    }
</style>
</head>
<body>

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

<script>
    var count = 0;

    function incrementCounter() {
        count++;
        document.getElementById("count").innerText = count;
        document.getElementById("count").style.fontSize = count * 2 + "px";
    }
</script>

</body>
</html>
```
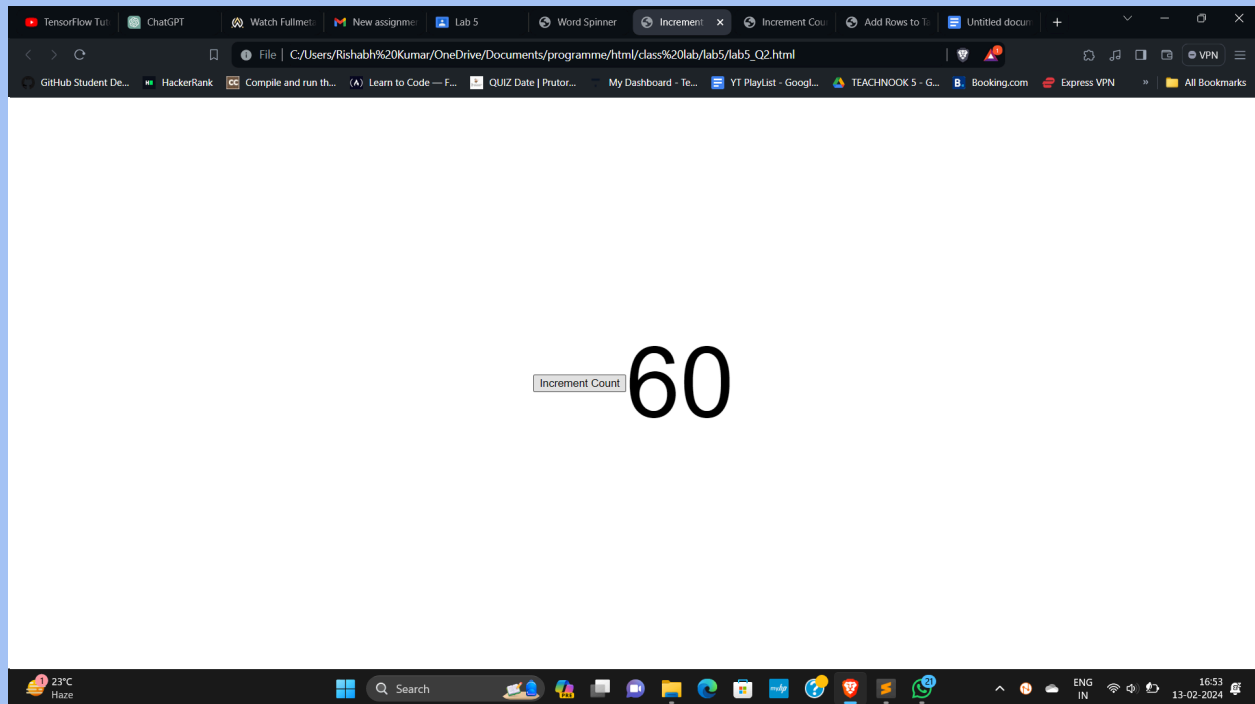
Q3

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Increment Counter with List</title>
<style>
    body {
        font-family: Arial, sans-serif;
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
        margin: 0;
    }

    ul {
        list-style-type: none;
        padding: 0;
    }

    li {
        font-size: 16px;
```

```
            transition: font-size 0.3s ease-in-out;
        }
    </style>
</head>
<body>

<button onclick="incrementCounter()">Increment Count</button>
<ul id="countList"></ul>

<script>
    var count = 0;

    function incrementCounter() {
        count++;
        var listItem = document.createElement("li");
        listItem.innerText = count;
        listItem.style.fontSize = count * 2 + "px";
        document.getElementById("countList").appendChild(listItem);
    }
</script>

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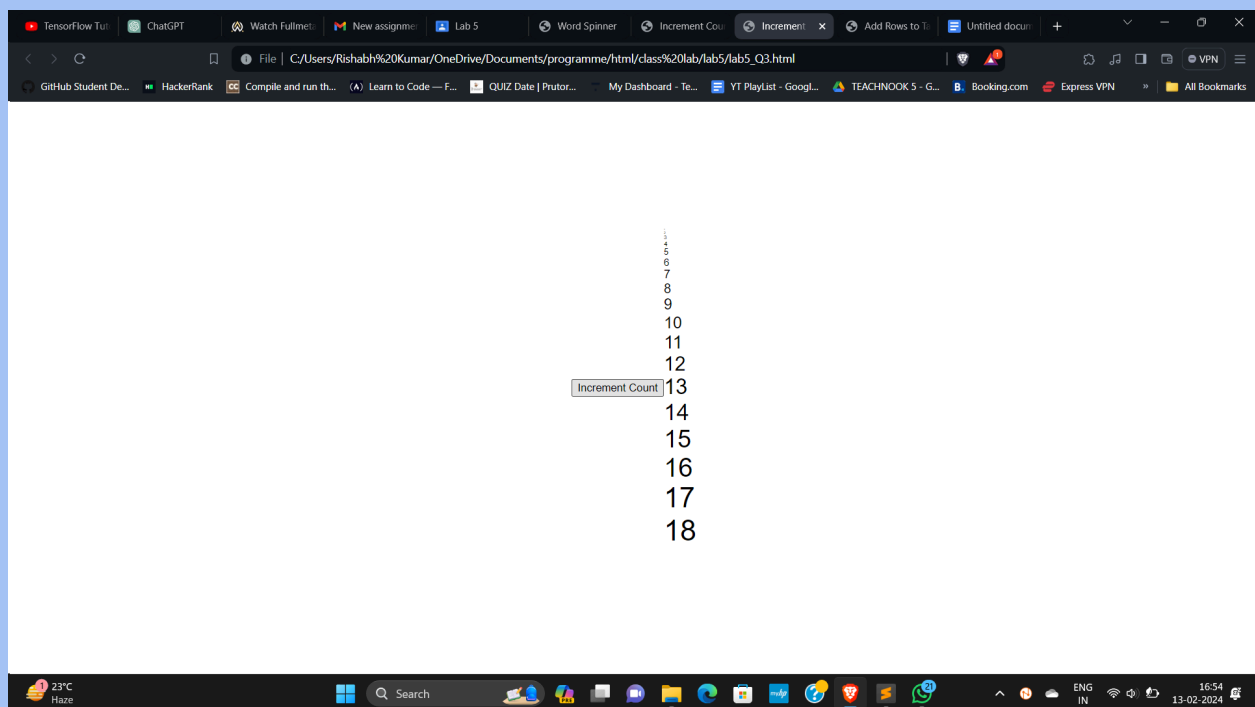
Q4

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Add Rows to Table</title>
</head>
<body>

<button onclick="addRow()">Add Row</button>
<table id="myTable" border="1">
  <tr>
    <th>Row Number</th>
    <th>Sum of Previous Two Rows</th>
  </tr>
  <tr>
    <td>1</td>
    <td>0</td>
  </tr>
  <tr>
    <td>2</td>
    <td>1</td>
  </tr>
</table>

<script>
function addRow() {
    var table = document.getElementById("myTable");
    var rowCount = table.rows.length;
    var lastRow = table.lastChild.previousSibling; // Get the last row
    var lastSum = parseInt(lastRow.cells[1].innerText); // Get the sum of the previous two rows
    var newRow = table.insertRow(rowCount); // Insert a new row

    var cell1 = newRow.insertCell(0); // Insert a cell for row number
    var cell2 = newRow.insertCell(1); // Insert a cell for the sum

    cell1.innerText = rowCount;
    cell2.innerText = lastSum + parseInt(lastRow.previousSibling.cells[1].innerText); // Calculate
and set the sum for the new row
}
</script>

</body>
```
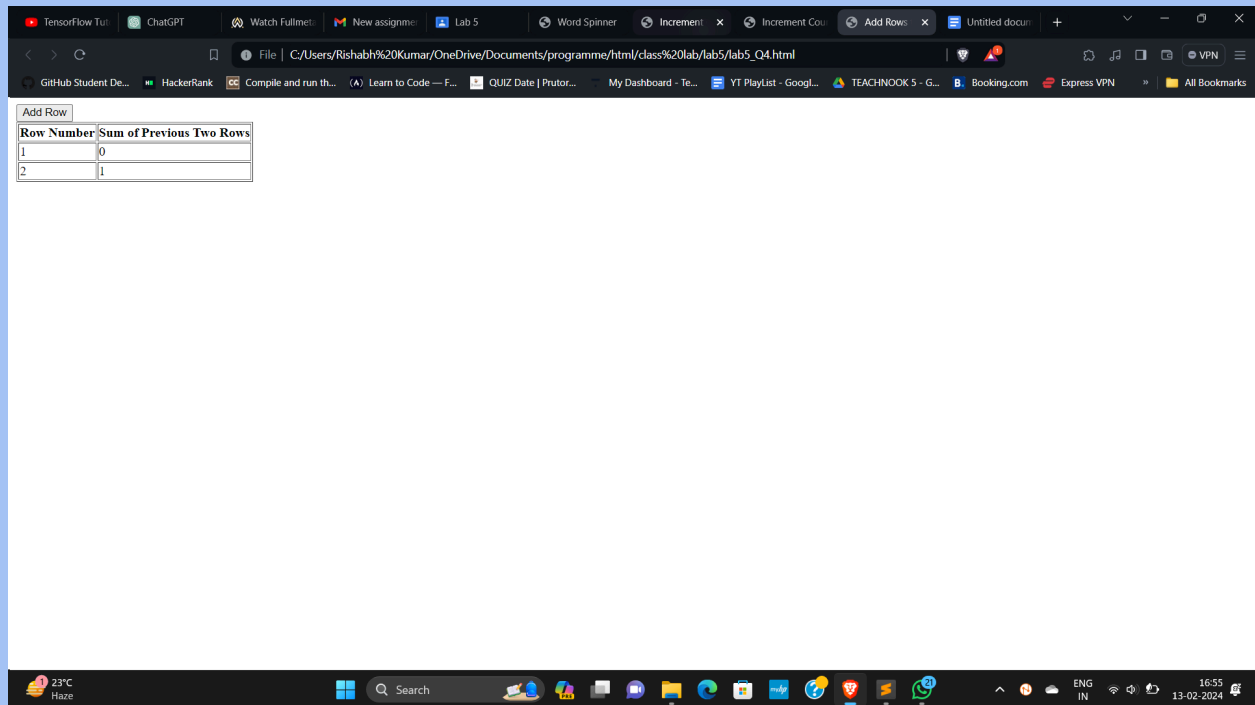
</html>

Q5.
```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Calculator</title>
</head>
<body>
<input type="text" id="input1">
<input type="text" id="input2">
<br>
<button onclick="calculate('+')">+</button>
<button onclick="calculate('-')">-</button>
<button onclick="calculate('*')">*</button>
<button onclick="calculate('/')">/</button>
<br>
<div id="result"></div>


<script>
function calculate(operation) {
    var input1 = Number.parseInt(document.getElementById('input1').value);
```
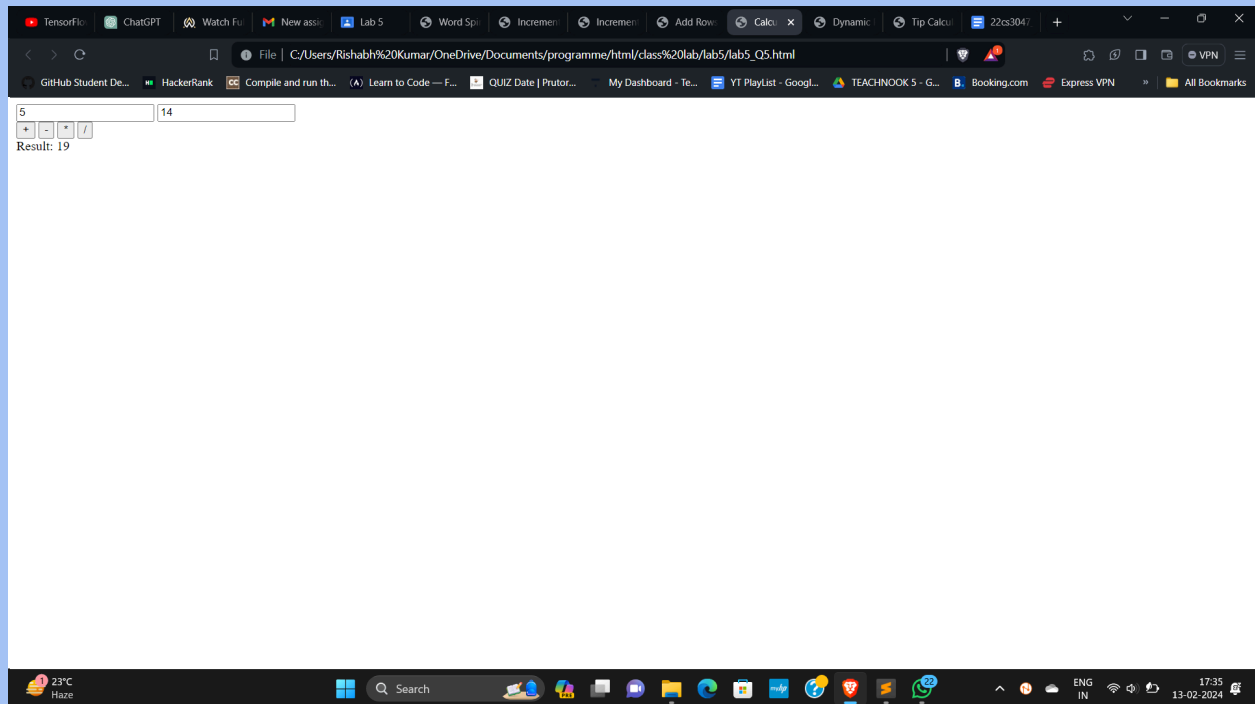
```javascript
    var input2 = Number.parseInt(document.getElementById('input2').value);
    var result;


    switch(operation) {
        case '+':
            result = input1 + input2;
            break;
        case '-':
            result = input1 - input2;
            break;
        case '*':
            result = input1 * input2;
            break;
        case '/':
            result = input1 / input2;
            break;
        default:
            result = "Invalid operation";
    }


    document.getElementById('result').innerText = "Result: " + result;
}
</script>


</body>
</html>
```

Q6.
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Dynamic Page Creation</title>
</head>
<body>
<button onclick="makePage();">Click Here</button>
<script>
function makePage() {
    var h1 = document.createElement('h1');
    h1.textContent = "I am an H1";

    var paragraph = document.createElement('p');
    paragraph.textContent = "This is a paragraph followed by a list";

    var ol = document.createElement('ol');
    ol.setAttribute('type', 'I');

    var li1 = document.createElement('li');
    li1.textContent = "This is first";
    ol.appendChild(li1);
```

```javascript
    var li2 = document.createElement('li');
    li2.textContent = "This is second";
    ol.appendChild(li2);

    document.body.appendChild(h1);
    document.body.appendChild(paragraph);
    document.body.appendChild(ol);
}
</script>


</body>
</html>
```
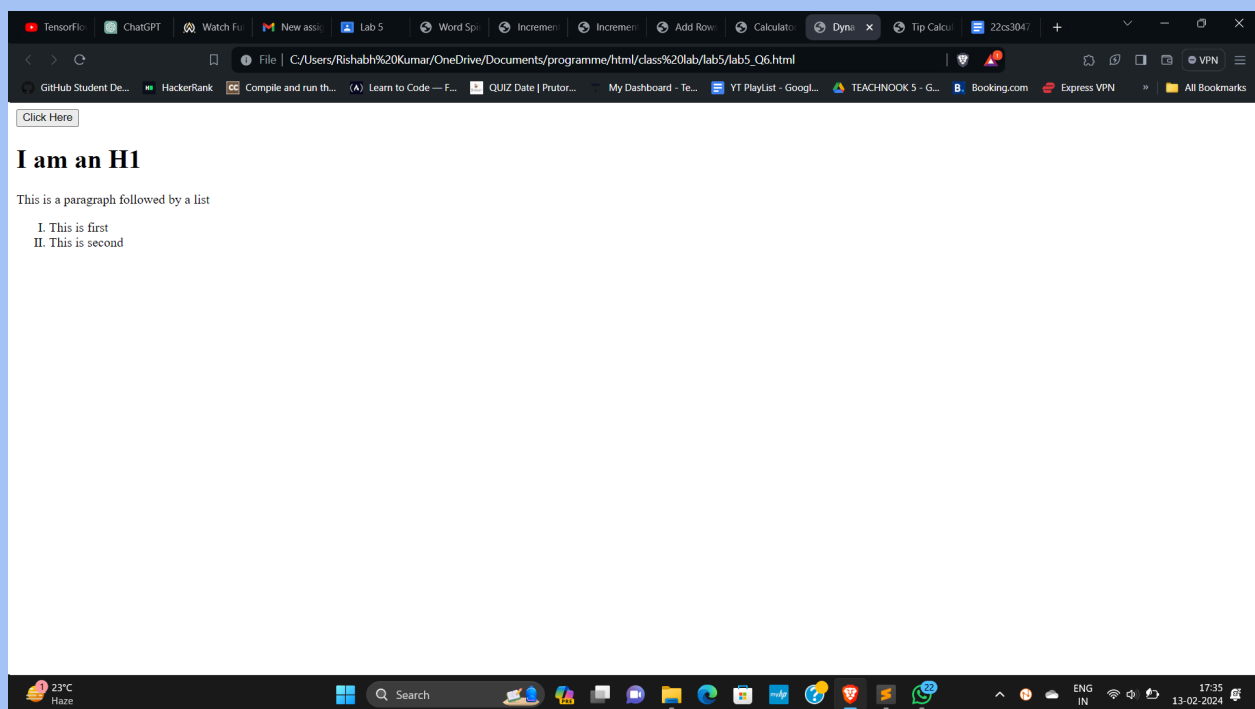

Q7.
```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Tip Calculator</title>
<style>
    body {
        font-family: Arial, sans-serif;
        margin: 0;
        padding: 0;
```

```css
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      background-color: #f4f4f4;
    }
    .calculator {
      background-color: #fff;
      border-radius: 5px;
      padding: 20px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }
    .input-group {
      margin-bottom: 10px;
    }
    .input-group label {
      display: block;
      margin-bottom: 5px;
    }
    .input-group input {
      width: 100%;
      padding: 8px;
      border-radius: 3px;
      border: 1px solid #ccc;
    }
    .result {
      margin-top: 20px;
    }
  </style>
</head>
<body>
<div class="calculator">
  <div class="input-group">
    <label for="billAmount">Bill Amount:</label>
    <input type="number" id="billAmount" min="0" step="0.01">
  </div>
  <div class="input-group">
    <label for="tipPercentage">Tip Percentage:</label>
    <input type="number" id="tipPercentage" min="0" max="100" step="1">
  </div>
  <div class="input-group">
    <label for="numberOfPeople">Number of People:</label>
    <input type="number" id="numberOfPeople" min="1">
  </div>
```

```html
    <button onclick="calculateTip()">Calculate</button>
    <div class="result" id="result"></div>
</div>


<script>
function calculateTip() {
    var billAmount = parseFloat(document.getElementById('billAmount').value);
    var tipPercentage = parseFloat(document.getElementById('tipPercentage').value);
    var numberOfPeople = parseInt(document.getElementById('numberOfPeople').value);


    if (isNaN(billAmount) || isNaN(tipPercentage) || isNaN(numberOfPeople) || billAmount <= 0 ||
tipPercentage < 0 || numberOfPeople <= 0) {
        document.getElementById('result').textContent = "Please enter valid values";
        return;
    }


    var tipAmount = billAmount * (tipPercentage / 100);
    var amountPerPerson = tipAmount / numberOfPeople;


    document.getElementById('result').textContent = "Tip per person: Rs. " +
amountPerPerson.toFixed(2);
}
</script>


</body>
</html>
```

Bill Amount:

4536

Tip Percentage:

20

Number of People:

49

Calculate

Tip per person: Rs. 18.51