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Lab-5

1.

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Word Spinner</title>
<style>
    body {
        font-family: Arial, sans-serif;
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
        background-color: #f4f4f4;
    }
    #wordContainer {
        text-align: center;
    }
    #word {
        font-size: 32px;
        margin-bottom: 20px;
        animation: spin 2s linear infinite;
    }
    @keyframes spin {
        0% { transform: rotate(0deg); }
        100% { transform: rotate(360deg); }
    }
</style>
</head>
<body>
<div id="wordContainer">
    <h2 id="word">Hello</h2>
    <input type="text" id="textInput">
    <button onclick="changeWord()">Change Word</button>
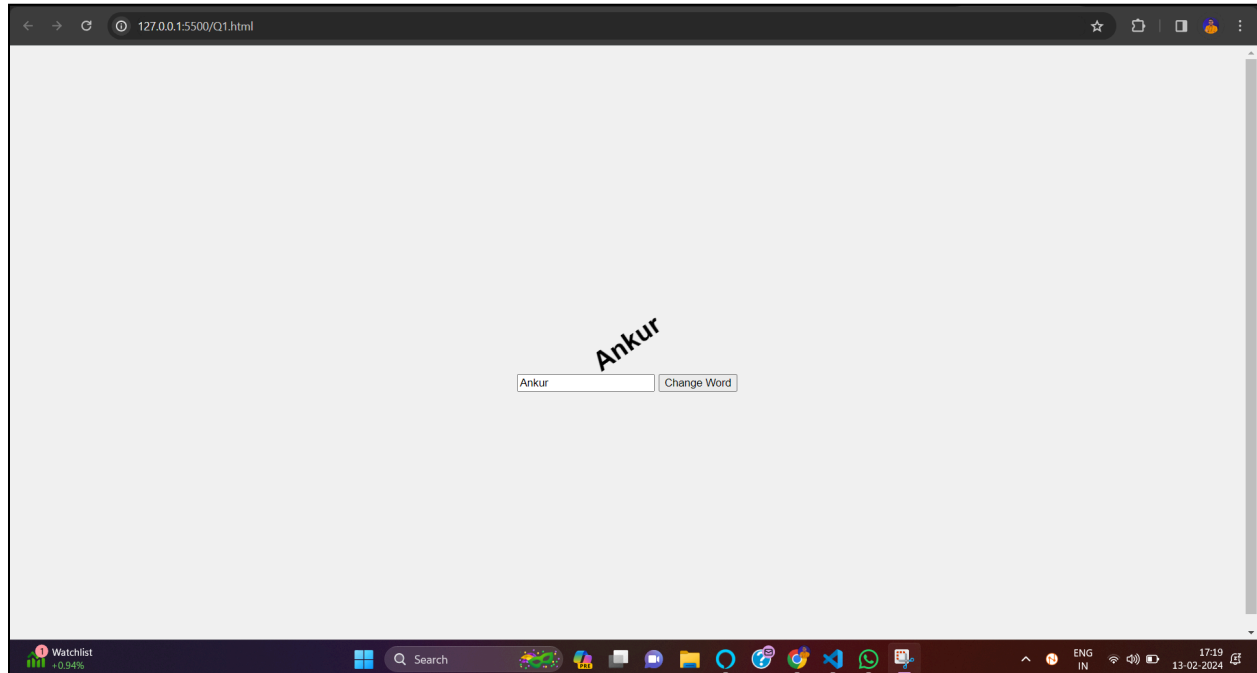```

```
</div>

<script>
function changeWord() {
    var input = document.getElementById('textInput').value;
    var word = document.getElementById('word');

    if (input.trim() === "") {
        alert("Please enter a word or phrase.");
        return;
    }

    word.textContent = input;
    word.style.animation = 'spin 2s linear infinite';
}
</script>

</body>
</html>
```


2.

```
<!DOCTYPE html>
```

```html
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Counter</title>
<style>
    body {
        font-family: Arial, sans-serif;
        text-align: center;
    }
    #count {
        font-size: 16px;
        transition: font-size 0.3s;
    }
</style>
</head>
<body>
<button onclick="incrementCount()">Increment Count</button>
<p id="count">0</p>

<script>
var count = 0;

function incrementCount() {
    count++;
    document.getElementById('count').textContent = count;
    var fontSize = 16 + count * 2;
    document.getElementById('count').style.fontSize = fontSize + 'px';
}
</script>

</body>
</html>
```
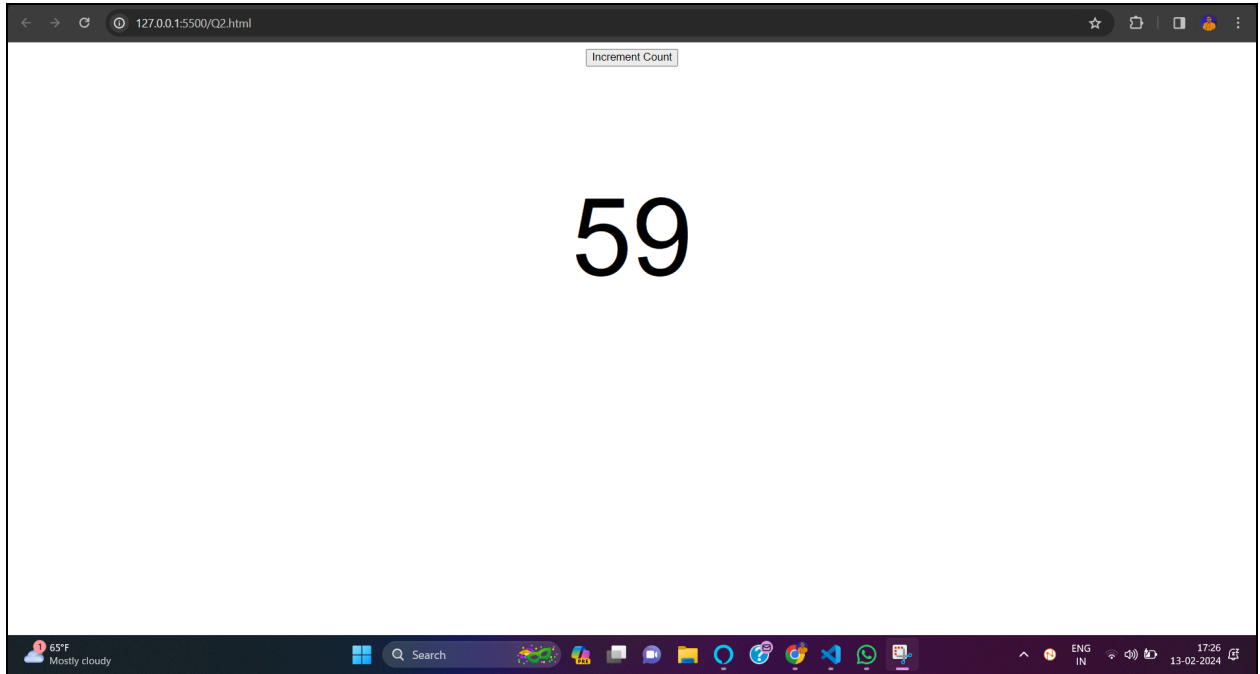
3.

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Counter</title>
<style>
    body {
        font-family: Arial, sans-serif;
        text-align: center;
    }
    #countList {
        list-style: none;
        padding: 0;
    }
</style>
</head>
<body>
<button onclick="incrementCount()">Increment Count</button>
<ul id="countList"></ul>

<script>
```
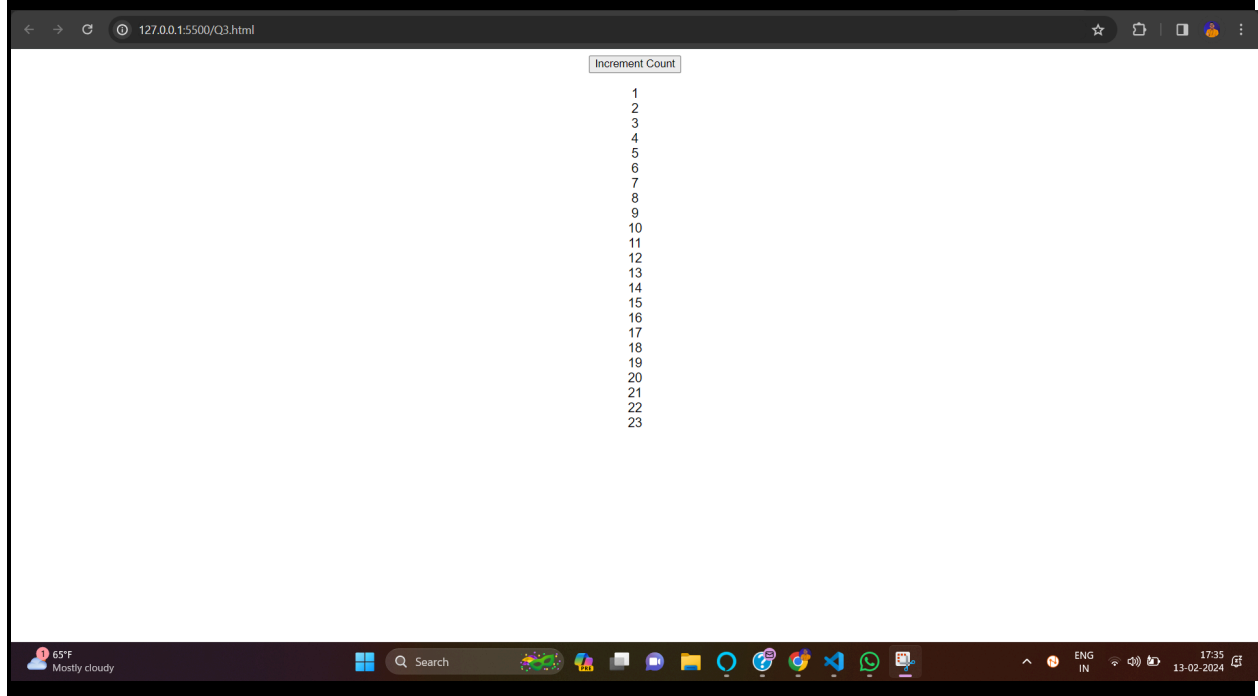
```javascript
var count = 0;

function incrementCount() {
    count++;

    var listItem = document.createElement('li');
    listItem.textContent = count;
    document.getElementById('countList').appendChild(listItem);
}
</script>


</body>
</html>
```


4.

```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>
```

```html
<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>
```
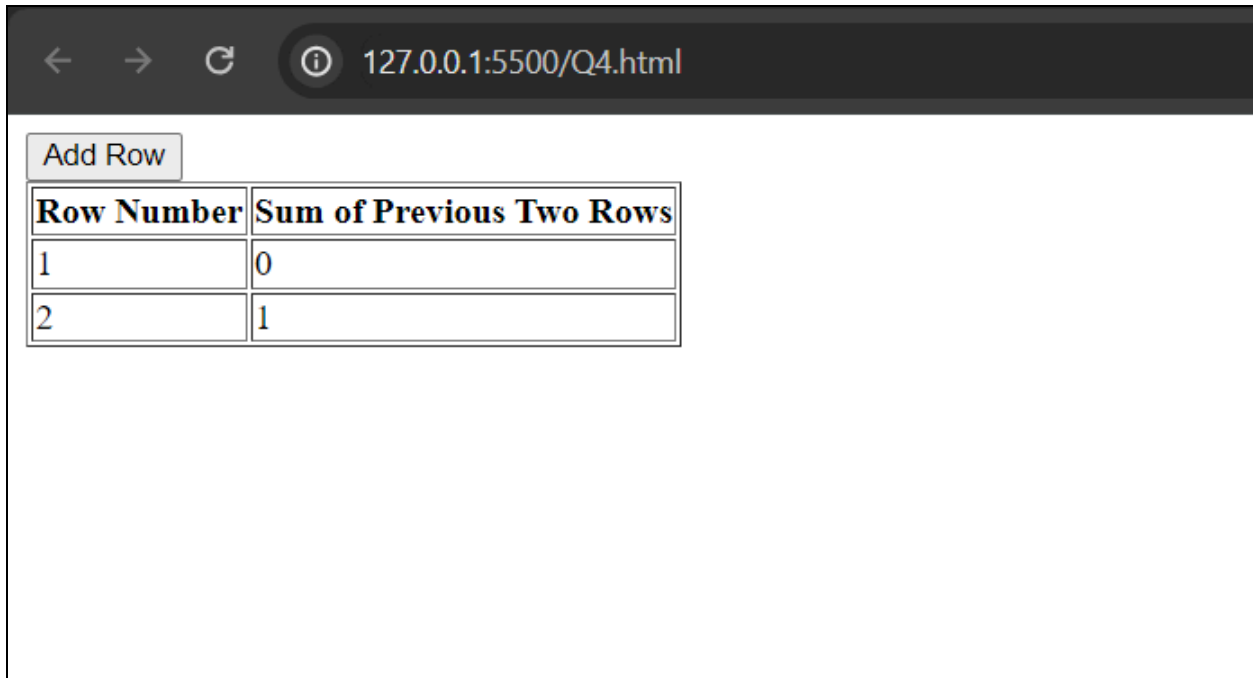
5.

```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);
```
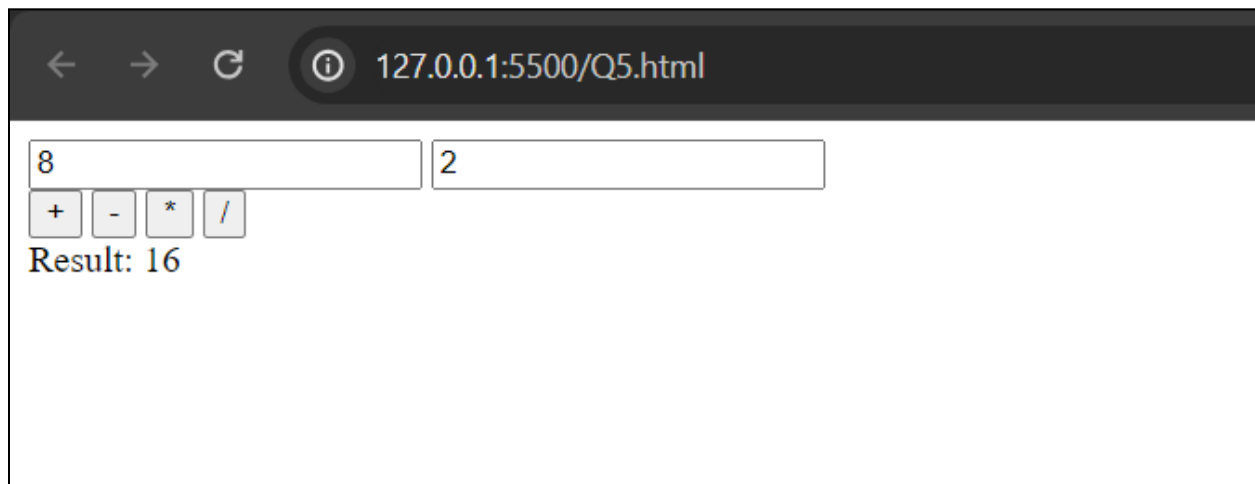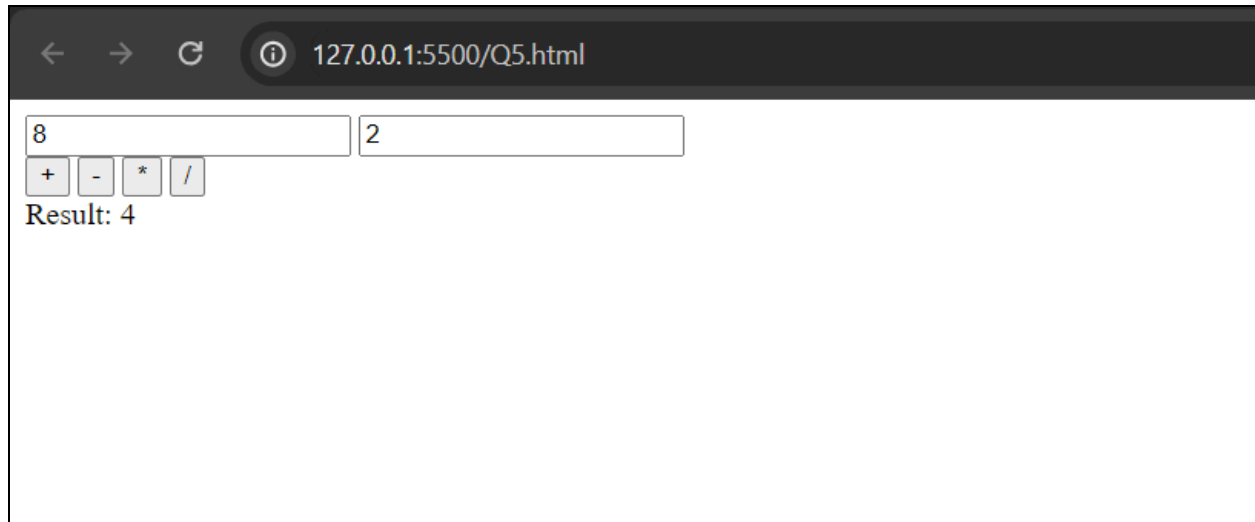
```javascript
        var input2 = Number.parseInt(document.getElementById('input2').value);
        var result;

        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>
```

6.

```
<!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);

        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>
```

Click Here

I am an H1

This is a paragraph followed by a list

    I. This is first
   II. This is second
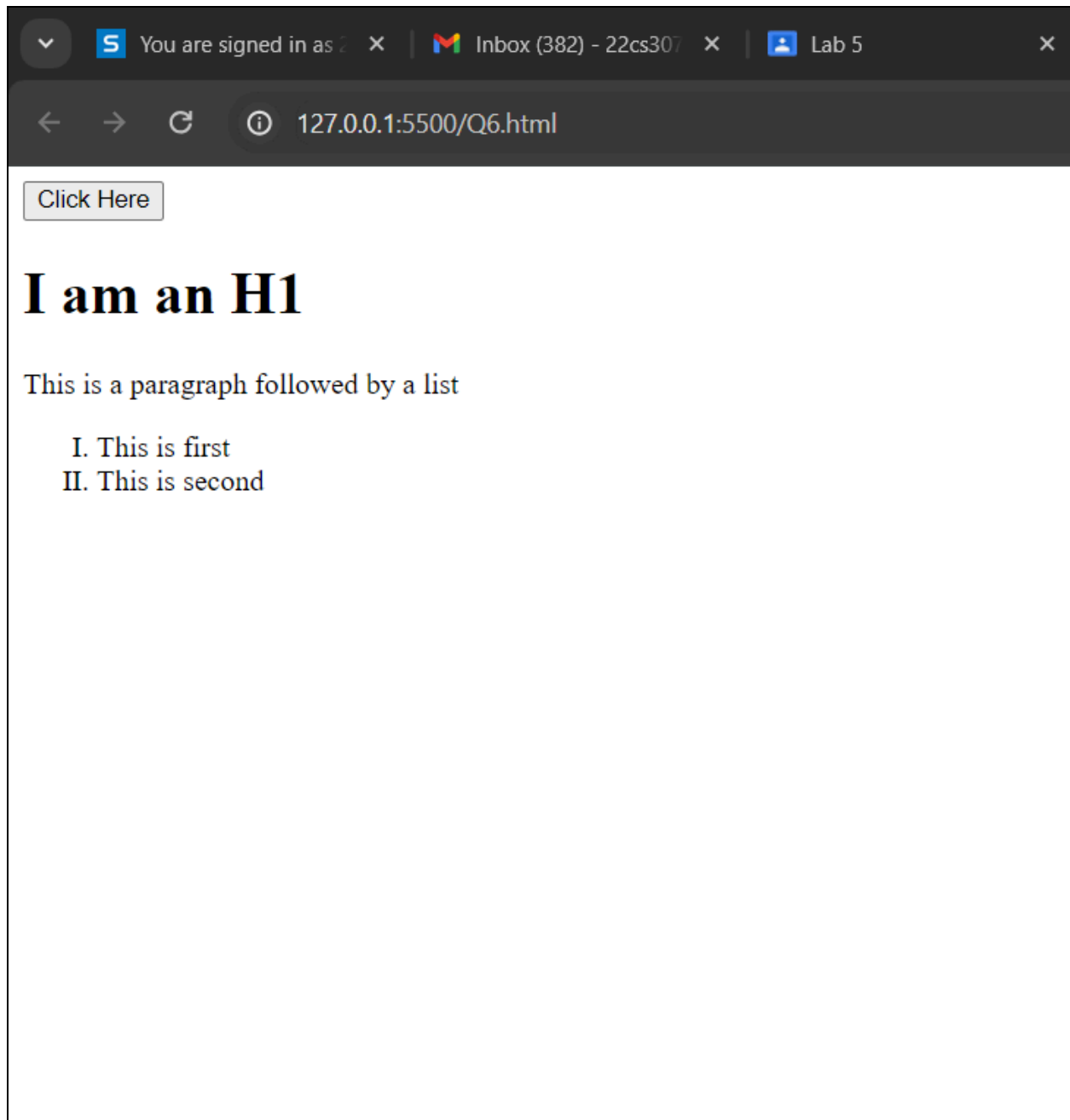
7.

```
<!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>
```

```css
        body {
            font-family: Arial, sans-serif;
            margin: 0;
            padding: 0;
            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>
```

```html
    <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>
    <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:

1000

Tip Percentage:

10

Number of People:

2

Calculate

Tip per person: Rs. 50.00