

LAB - 5
Name - Divyaansh Vats
Roll No. 22mc3013

Q1

```
<!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">
```

```
<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;
```

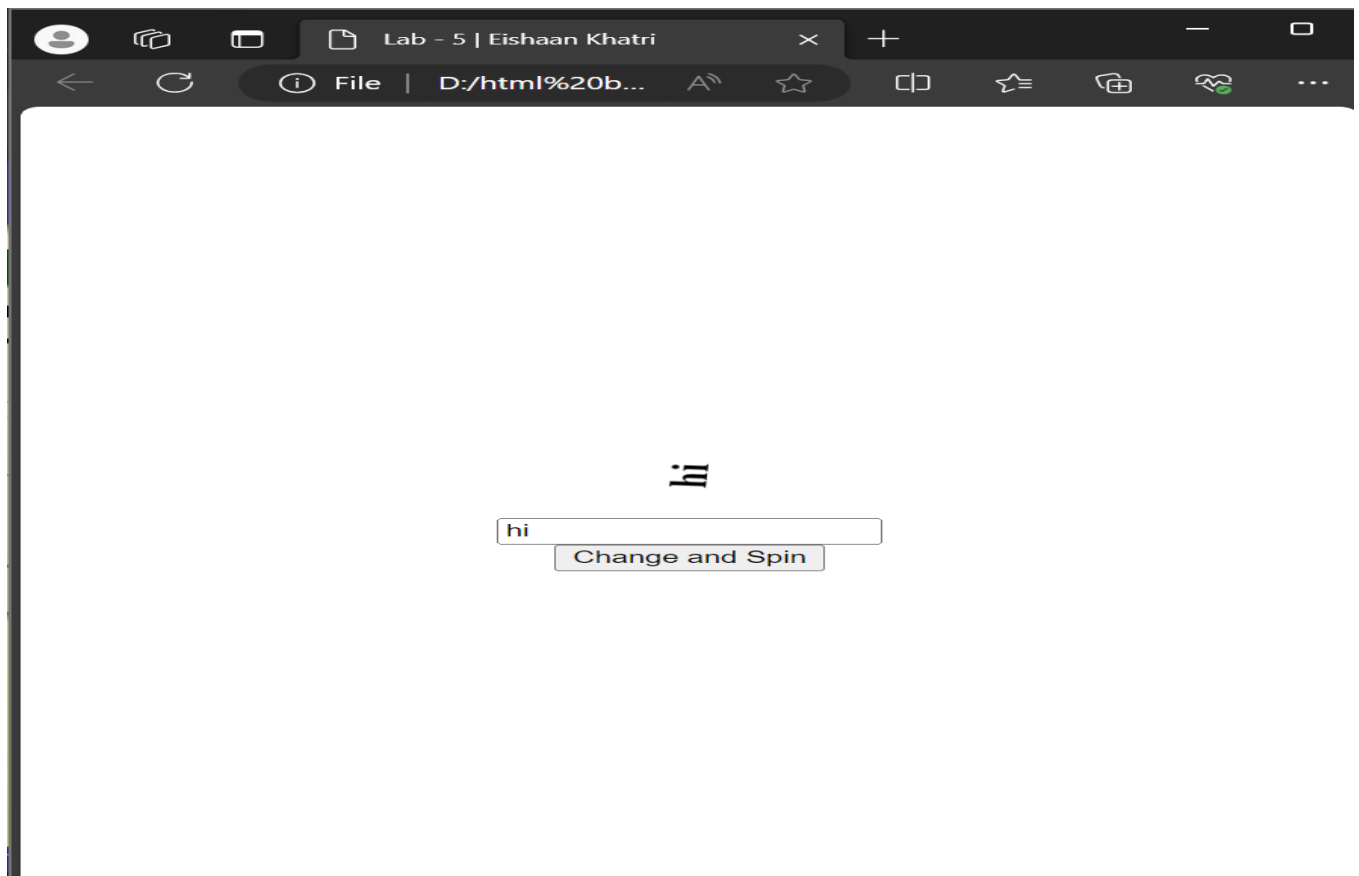
```
    // Add the 'spin' class to trigger the animation  
    outputElement.classList.add('spin');
```

```
    // 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>
```



Q2)

```
<!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>

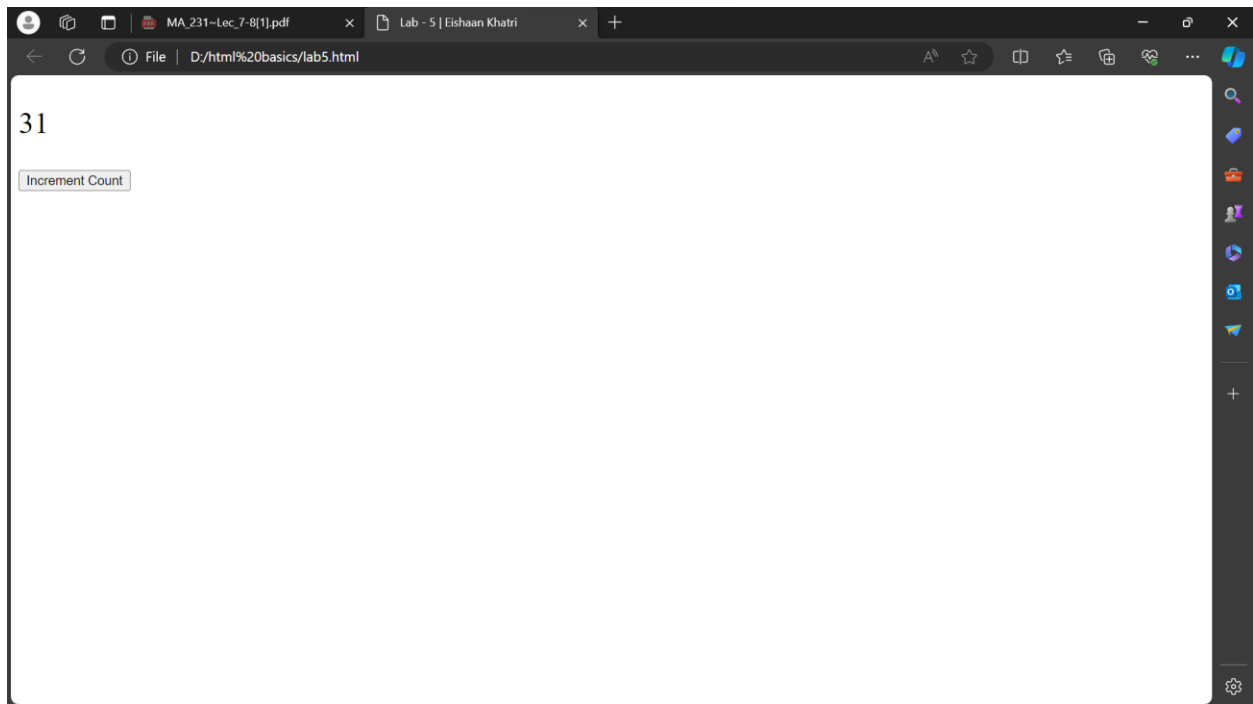
<script>
  let count = 20;
```

```

    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>
    #count {

```

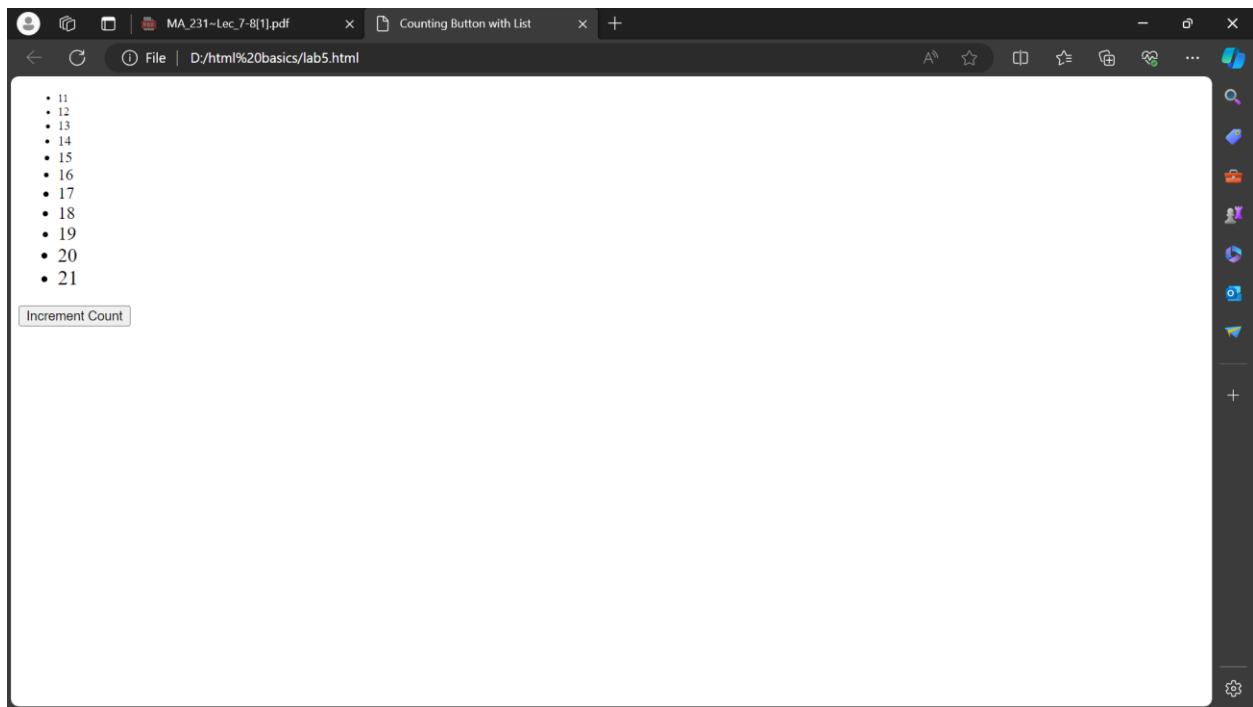
```
        font-size: 16px; /* Initial font size */
    }
</style>
</head>
<body>

<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)

```
<!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;
    }
  </style>
</head>
<body>
  <table>
    <tr>
      <td>• 11</td>
    </tr>
    <tr>
      <td>• 12</td>
    </tr>
    <tr>
      <td>• 13</td>
    </tr>
    <tr>
      <td>• 14</td>
    </tr>
    <tr>
      <td>• 15</td>
    </tr>
    <tr>
      <td>• 16</td>
    </tr>
    <tr>
      <td>• 17</td>
    </tr>
    <tr>
      <td>• 18</td>
    </tr>
    <tr>
      <td>• 19</td>
    </tr>
    <tr>
      <td>• 20</td>
    </tr>
    <tr>
      <td>• 21</td>
    </tr>
  </table>
  <button>Increment Count</button>
</body>
</html>
```

```
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);

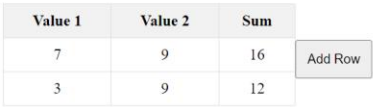
// Prompt user for input and update cells
var value1 = parseFloat(prompt("Enter Value 1") || 0);
var value2 = parseFloat(prompt("Enter Value 2") || 0);

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>
```

```
<!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;
```

```
<!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>

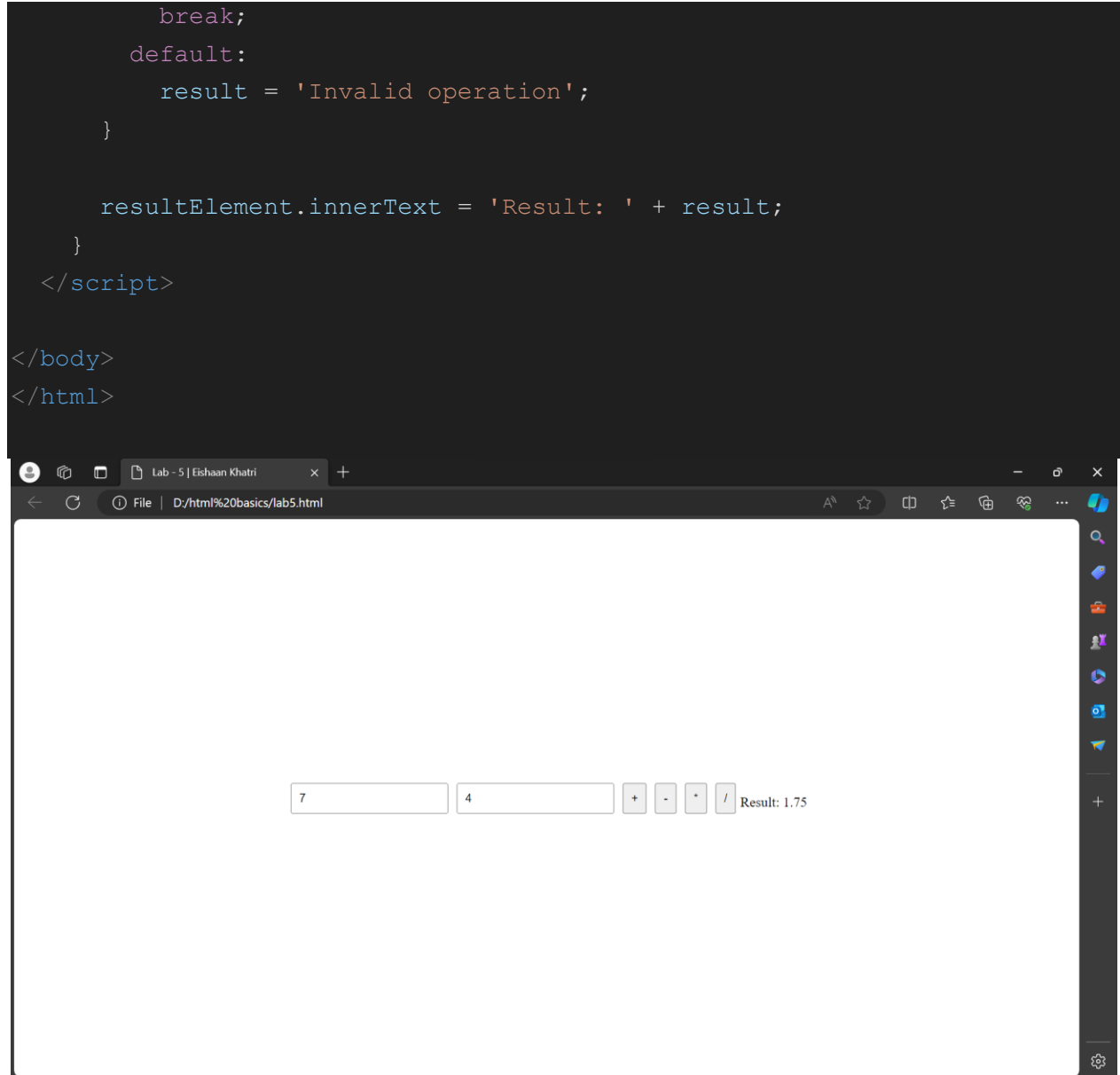
    <button onclick="performOperation('+')">+</button>
    <button onclick="performOperation('-')">-</button>
    <button onclick="performOperation('*')">*</button>
    <button onclick="performOperation('/')">/</button>

    <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';
```



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>
<style>
/* CSS styles for the generated elements */
.container {
    display: flex;
    flex-direction: column;
    align-items: center;
```

```

    margin-top: 20px;
}
.box {
    width: 100px;
    height: 100px;
    border: 1px solid black;
    margin: 5px;
}
</style>
</head>
<body>
<button onclick="makePage();">Click Here</button>

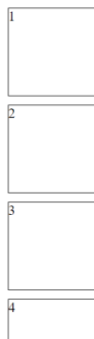
<script>
function makePage() {
    // Create a container div
    var container = document.createElement("div");
    container.className = "container";

    // Create 10 boxes and append them to the container
    for (var i = 0; i < 10; i++) {
        var box = document.createElement("div");
        box.className = "box";
        box.innerText = i + 1;
        container.appendChild(box);
    }

    // Append the container to the body
    document.body.appendChild(container);
}
</script>
</body>
</html>

```

Click Here



```

<!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: #f9f9f9;
    margin: 0;
    padding: 0;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
  }

  #container {
    text-align: center;
  }

  #showContentButton {
    background-color: #000000;
    color: white;
    border: none;
    padding: 10px 30px;
    font-size: 18px;
    cursor: pointer;
    border-radius: 8px;
    transition: background-color 0.3s ease;
    outline: none;
    box-shadow: 0px 2px 10px rgba(0, 0, 0, 0.2);
  }

  #showContentButton:hover {
    background-color: #444444;
  }

  #hiddenContent {
    display: none;
    margin-top: 20px;
    background-color: #fff;
    padding: 10px;
    border-radius: 12px;
    box-shadow: 0 0 20px rgba(0, 0, 0, 0.1);
  }

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

  #hiddenContent p {
    color: #000;
    font-size: 16px;
    line-height: 1.5;
    margin-bottom: 20px;
  }

  #hiddenContent ol {
    list-style-type: upper-roman;
    color: #000;
    font-size: 16px;
    line-height: 1.5;
    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> Hi Nishant</h1>
    <p>This is a Web Development Lab.</p>
    <ol type="1">
      <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

```
<!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;
    }
  </style>
</head>
<body>
  <div>
    <h1>Lab - 5</h1>
    <h2>Form Validation</h2>
    <div>
      <input type="text" value="Name" />
      <input type="password" value="Password" />
      <input type="password" value="Confirm Password" />
      <input type="text" value="Email" />
      <input type="text" value="Phone Number" />
      <input type="text" value="Address" />
      <input type="text" value="City" />
      <input type="text" value="State" />
      <input type="text" value="Zip Code" />
      <input type="text" value="Date of Birth" />
      <input type="text" value="Gender" />
      <input type="text" value="Marital Status" />
      <input type="text" value="Occupation" />
      <input type="text" value="Hobbies" />
      <input type="text" value="Comments" />
      <input type="button" value="Submit" />
      <input type="button" value="Cancel" />
    </div>
  </div>
</body>
</html>
```

```
        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>
```


Lab - 5 | Eishaan Khatri

Sign In

You are signed in as 22

You are signed in as 22

MSN India | Breaking N

File | D:/html%20basics/lab5.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