T1.

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

        #wordContainer {
            text-align: center;
        }

        #spinWord {
            display: inline-block;
            transition: transform 0.5s ease-in-out;
        }
    </style>
</head>
<body>
    <div id="wordContainer">
        <h2 id="spinWord">Hello</h2>
        <input type="text" id="textInput" placeholder="Enter a word or phrase">
        <button onclick="changeWord()">Change Word</button>
    </div>

    <script>
        function changeWord() {
            const inputElement = document.getElementById('textInput');
            const spinWordElement = document.getElementById('spinWord');

            const newWord = inputElement.value.trim();
```

```
        if (newWord !== ") {
            spinWordElement.innerText = newWord;
            inputElement.value = ";

            spinWordElement.classList.add('spin-animation');

            setTimeout(() => {
                spinWordElement.classList.remove('spin-animation');
            }, 500);
        }
    }
    </script>
</body>
</html>
```

Hello Enter a word or phrase | Change Word

T2.

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

```html
        }

        #count {
            font-size: 16px;
            transition: font-size 0.5s ease-in-out;
        }
    </style>
</head>
<body>
    <button onclick="incrementCount()">Increment Count</button>
    <p id="count">0</p>

    <script>
        let currentCount = 0;

        function incrementCount() {
            currentCount++;

            const countElement = document.getElementById('count');
            countElement.innerText = currentCount;

            const fontSize = 16 + currentCount * 2;
            countElement.style.fontSize = fontSize + 'px';
        }
    </script>
</body>
</html>
```

Increment Count 0

Increment Count 1

T3.
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Counting Page</title>
    <style>
        body {
```

```html
        display: flex;
        align-items: center;
        justify-content: center;
        height: 100vh;
        margin: 0;
    }

    #countList {
        list-style-type: none;
        padding: 0;
    }

    .countItem {
        font-size: 16px;
        transition: font-size 0.5s ease-in-out;
    }
    </style>
</head>
<body>
    <button onclick="incrementCount()">Increment Count</button>
    <ul id="countList"></ul>

    <script>
        let currentCount = 0;

        function incrementCount() {
            currentCount++;

            const countList = document.getElementById('countList');

            const listItem = document.createElement('li');
            listItem.textContent = currentCount;
            listItem.classList.add('countItem');

            const fontSize = 16 + currentCount * 2;
            listItem.style.fontSize = fontSize + 'px';

            countList.appendChild(listItem);
        }
    </script>
```

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

[Increment Count] 1

T4.
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Table Rows Sum</title>
</head>
<body>
    <table id="sumTable" border="1">
        <tr>
            <td>1</td>
        </tr>
        <tr>
            <td>2</td>
        </tr>
    </table>

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

```
<script>
    function addRow() {
        const table = document.getElementById('sumTable');
        const rows = table.getElementsByTagName('tr');

        if (rows.length >= 2) {

            const lastRow = rows[rows.length - 1];
            const prevRow = lastRow.previousSibling;

            const sum = parseInt(lastRow.innerText) + parseInt(prevRow.innerText);

            const newRow = document.createElement('tr');
            const newCell = document.createElement('td');

            newCell.innerText = sum;

            newRow.appendChild(newCell);

            table.appendChild(newRow);
        }
    }
</script>
</body>
</html>
```
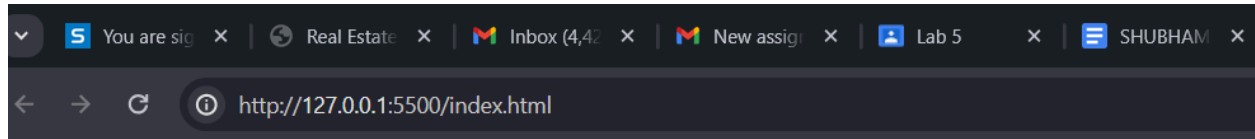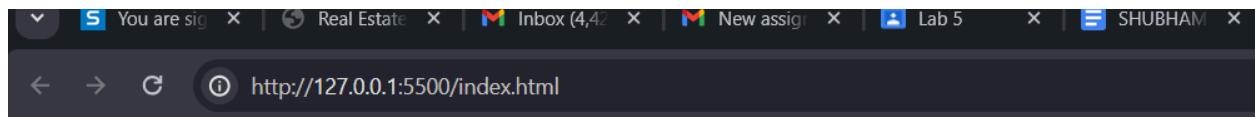
T7.
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Tip Calculator SPA</title>
    <style>
```

```css
        body {
            font-family: Arial, sans-serif;
            display: flex;
            flex-direction: column;
            align-items: center;
            justify-content: center;
            height: 100vh;
            margin: 0;
        }

        #calculator {
            text-align: center;
        }

        input {
            margin-bottom: 10px;
            padding: 8px;
        }

        button {
            padding: 10px;
            cursor: pointer;
        }

        #result {
            margin-top: 20px;
            font-size: 18px;
        }
    </style>
</head>
<body>
    <div id="calculator">
        <label>Enter Bill Amount:</label>
        <input type="number" id="billAmount" min="0" required>

        <label>Enter Tip Percentage:</label>
        <input type="number" id="tipPercentage" min="0" required>

        <label>Enter Number of People:</label>
        <input type="number" id="numberOfPeople" min="1" required>
```

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

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

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

        if (isNaN(billAmount) || isNaN(tipPercentage) || isNaN(numberOfPeople) ||
billAmount < 0 || tipPercentage < 0 || numberOfPeople <= 0) {
            alert('Please enter valid values for amount, percentage, and number of
people.');
            return;
        }

        const tipAmount = (billAmount * tipPercentage) / 100;
        const totalAmount = billAmount + tipAmount;
        const tipPerPerson = tipAmount / numberOfPeople;
        const totalPerPerson = totalAmount / numberOfPeople;

        const resultParagraph = document.getElementById('result');
        resultParagraph.textContent = `Tip Amount: $${tipAmount.toFixed(2)} | Total
Amount: $${totalAmount.toFixed(2)} | Tip Per Person: $${tipPerPerson.toFixed(2)} |
Total Per Person: $${totalPerPerson.toFixed(2)}`;
    }
  </script>
</body>
</html>
```

Enter Bill Amount: 82000   Enter Tip Percentage: 10   Enter Number of People: 4   Calculate Tip

Tip Amount: $8200.00 | Total Amount: $90200.00 | Tip Per Person: $2050.00 | Total Per Person: $22550.00

T5.
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Simple Calculator</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            display: flex;
            flex-direction: column;
            align-items: center;
            justify-content: center;
            height: 100vh;
            margin: 0;
        }

        input {
            margin-bottom: 10px;
            padding: 8px;
        }

        button {
            padding: 10px;
            cursor: pointer;
        }

        #result {
```

```
            margin-top: 20px;
            font-size: 18px;
        }
    </style>
</head>
<body>
    <input type="text" id="input1" placeholder="Enter number 1">
    <input type="text" id="input2" placeholder="Enter number 2">

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

    <p id="result"></p>

    <script>
        function performOperation(operator) {
            const input1 = document.getElementById('input1');
            const input2 = document.getElementById('input2');
            const resultParagraph = document.getElementById('result');

            const value1 = Number.parseInt(input1.value);
            const value2 = Number.parseInt(input2.value);

            if (isNaN(value1) || isNaN(value2)) {
                alert('Please enter valid numbers.');
                return;
            }

            let result;
            switch (operator) {
                case '+':
                    result = value1 + value2;
                    break;
                case '-':
                    result = value1 - value2;
                    break;
                case '*':
                    result = value1 * value2;
```

```
                break;
            case '/':
                if (value2 === 0) {
                    alert('Cannot divide by zero.');
                    return;
                }
                result = value1 / value2;
                break;
            default:
                alert('Invalid operator.');
                return;
        }

        resultParagraph.textContent = `Result: ${result}`;
      }
    </script>
  </body>
</html>
```



```
23
12
+
-
*
/
Result: 35
```

T6.

```
<!DOCTYPE html>
<html>
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Dynamic Page</title>
   <style>
```

```css
        body {
            display: flex;
            flex-direction: column;
            align-items: center;
            justify-content: center;
            height: 100vh;
            margin: 0;
            padding: 0;
            background-color: #f0f0f0;
        }
        h1 {
            font-size: 24px;
            margin: 10px 0;
        }
        p {
            font-size: 18px;
            margin: 10px 0;
        }
</style>
<script>
    function makePage() {
        const body = document.querySelector("body");
        const container = document.createElement("div");
        container.style.display = "flex";
        container.style.flexDirection = "column";
        container.style.alignItems = "center";
        const h1 = document.createElement("h1");
        h1.innerText = "I am h1";
        const p1 = document.createElement("p");
        p1.innerText = "This is a paragraph followed by a list";


        const ul = document.createElement("ul");


        const li1 = document.createElement("li");
        const p2_1 = document.createElement("p");
        p2_1.innerText = "This is the first.";
        li1.appendChild(p2_1);
```

```
            const li2 = document.createElement("li");
            const p2_2 = document.createElement("p");
            p2_2.innerText = "This is the second.";
            li2.appendChild(p2_2);
            ul.appendChild(li1);
            ul.appendChild(li2);
            container.appendChild(h1);
            container.appendChild(p1);
            container.appendChild(ul);
            body.appendChild(container);
        }
    </script>
</head>
<body>
    <button onclick="makePage();">Click Here</button>
</body>
</html>
```

Click Here

Click Here

I am h1

This is a paragraph followed by a list

- This is the first.
- This is the second.