Web Technology Assignment-5

T1: Code:

```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>
  #word {
    display: inline-block;
    transition: transform 3s ease;
  }

  .spin-animation {
    transform: rotateY(360deg);
  }
</style>
</head>
<body>
  <h2 id="word">Hello</h2>
  <input type="text" id="inputWord" placeholder="Enter a word or phrase">
  <button onclick="changeWord()">Change</button>

  <script>
    function changeWord() {
      const input = document.getElementById("inputWord");
      const newWord = input.value;
      const wordElement = document.getElementById("word");
      wordElement.textContent = newWord;
      wordElement.classList.add("spin-animation");
      setTimeout(() => {
        wordElement.classList.remove("spin-animation");
      }, 1000);
    }
  </script>
</body>
</html>
```

Web Page:

hello iam ayush   hello iam ayush   Change

T2: code:

```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>
  #count {
    font-size: 16px; /* Initial font size */
  }
</style>
</head>
<body>
  <button onclick="incrementCount()">Increment Count</button>
  <p id="count">0</p>

  <script>
    let count = 0;

    function incrementCount() {
      count++;
      document.getElementById("count").innerText = count;
      updateFontSize();
    }

    function updateFontSize() {
      const fontSizeIncrement = 2; // You can adjust this value as needed
      const newFontSize = 16 + (count * fontSizeIncrement);
      document.getElementById("count").style.fontSize = newFontSize + "px";
    }
  </script>
</body>
</html>
```

Web Page:

Increment Count

3

Increment Count

5

T3: code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Counter with List</title>
<style>
  #countList {
    list-style-type: none;
    padding: 0;
  }

  #countList li {
    font-size: 16px;
    margin-bottom: 5px;
  }
</style>
</head>
<body>
  <button onclick="incrementCount()">Increment Count</button>
  <ul id="countList"></ul>

  <script>
    let count = 0;

    function incrementCount() {
      count++;
      const newListItem = document.createElement("li");
      newListItem.textContent = count;
      document.getElementById("countList").appendChild(newListItem);
      updateFontSize(newListItem);
    }

    function updateFontSize(listItem) {
      const fontSizeIncrement = 2;
      const currentFontSize = parseInt(window.getComputedStyle(listItem).fontSize);
      const newFontSize = currentFontSize + fontSizeIncrement;
```

```
        listItem.style.fontSize = newFontSize + "px";
    }
  </script>
</body>
</html>
```

Web Page:

Next =>

T4: Code:

```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>
<style>
  body {
    font-family: Arial, sans-serif;
  }

  table {
    width: 50%;
    border-collapse: collapse;
    margin: 20px auto;
  }

  th, td {
    border: 1px solid #dddddd;
    text-align: center;
    padding: 8px;
  }

  th {
```

```
      background-color: #f2f2f2;
    }

  button {
      display: block;
      margin: 20px auto;
      padding: 10px 20px;
      font-size: 16px;
      background-color: #4CAF50;
      color: white;
      border: none;
      border-radius: 4px;
      cursor: pointer;
    }

  button:hover {
      background-color: #45a049;
    }
</style>
</head>
<body>
  <button id="addButton">Add Row</button>
  <table id="myTable">
    <thead>
      <tr>
        <th>Row Number</th>
        <th>Sum of Previous Two Rows</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>1</td>
        <td>1</td>
      </tr>
      <tr>
        <td>2</td>
        <td>1</td>
      </tr>
    </tbody>
  </table>

  <script>
    document.getElementById("addButton").addEventListener("click", function() {
      const table = document.getElementById("myTable");
      const tbody = table.getElementsByTagName("tbody")[0];
      const rows = tbody.getElementsByTagName("tr");

      let lastSum, secondLastSum;
```

```
      if (rows.length > 0) {
        const lastRow = rows[rows.length - 1];
        lastSum = parseInt(lastRow.lastElementChild.innerText);
        if (rows.length > 1) {
          const secondLastRow = rows[rows.length - 2];
          secondLastSum = parseInt(secondLastRow.lastElementChild.innerText);
        } else {
          secondLastSum = 0;
        }
      } else {
        lastSum = 0;
        secondLastSum = 0;
      }

      const newSum = lastSum + secondLastSum;

      const newRow = document.createElement("tr");
      const newRowNumber = document.createElement("td");
      newRowNumber.innerText = rows.length + 1;
      const newRowSum = document.createElement("td");
      newRowSum.innerText = newSum;

      newRow.appendChild(newRowNumber);
      newRow.appendChild(newRowSum);

      tbody.appendChild(newRow);
    });
  </script>
</body>
</html>
```

Web Page:

Add Row

Row Number	Sum of Previous Two Rows
1	1
2	1
3	2
4	3
5	5
6	8

T5: code:

```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>
<style>
  body {
    font-family: Arial, sans-serif;
  }

  input[type="text"] {
    padding: 8px;
    margin: 5px;
    width: 150px;
  }

  button {
    padding: 8px 16px;
    margin: 5px;
    font-size: 16px;
    cursor: pointer;
  }

  #result {
    margin-top: 20px;
    font-size: 20px;
    font-weight: bold;
  }
</style>
</head>
<body>
  <input type="text" id="input1" placeholder="Enter number 1">
  <input type="text" id="input2" placeholder="Enter number 2">
  <br>
  <button onclick="performOperation('+')">+</button>
  <button onclick="performOperation('-')">-</button>
  <button onclick="performOperation('*')">*</button>
  <button onclick="performOperation('/')">/</button>
  <br>
  <div id="result"></div>

  <script>
    function performOperation(operator) {
      const input1 = document.getElementById("input1").value;
      const input2 = document.getElementById("input2").value;
```

```
        const number1 = parseInt(input1);
        const number2 = parseInt(input2);

        let result;
        switch (operator) {
          case '+':
            result = number1 + number2;
            break;
          case '-':
            result = number1 - number2;
            break;
          case '*':
            result = number1 * number2;
            break;
          case '/':
            if (number2 !== 0) {
              result = number1 / number2;
            } else {
              result = "Cannot divide by zero";
            }
            break;
          default:
            result = "Invalid operator";
        }

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

Web Page:

T6: Code:

```html
<!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>
  body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f0f0f0;
    text-align: center;
  }

  #container {
    max-width: 800px;
    margin: 20px auto;
    background-color: #fff;
    padding: 20px;
    border-radius: 10px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
  }

  button {
    padding: 10px 20px;
    font-size: 16px;
    background-color: #4CAF50;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
  }

  h1 {
    margin-top: 30px;
  }

  ol {
    list-style-type: lower-roman;
    text-align: left;
  }
</style>
</head>
<body>

<button id="createButton">Create Page</button>
```
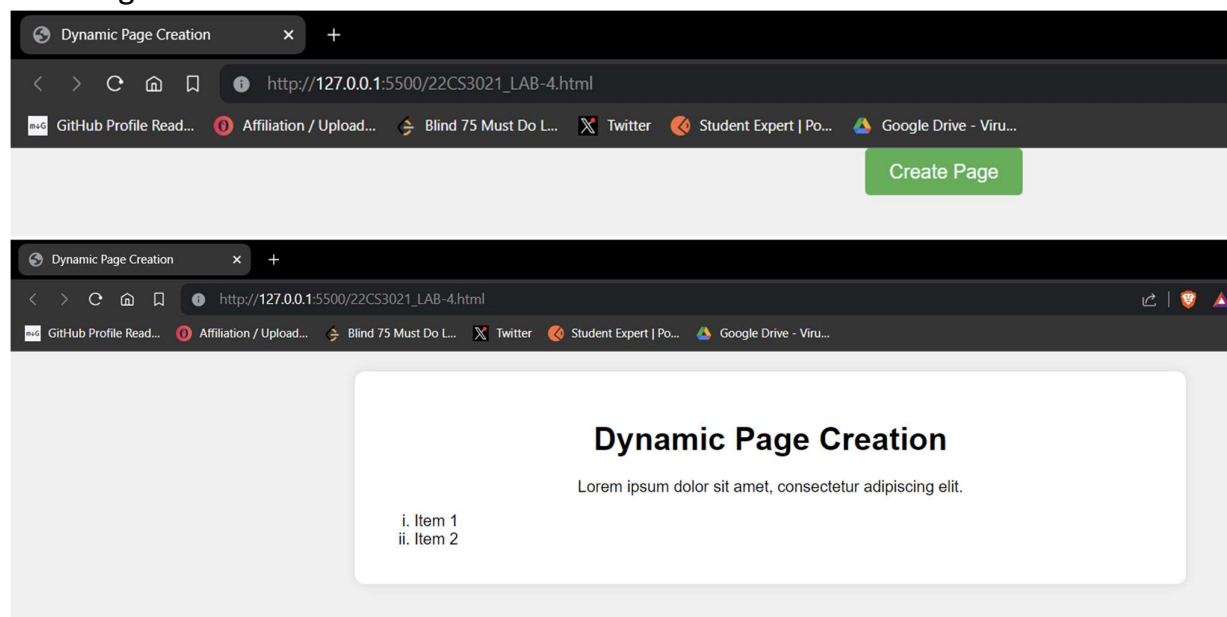
```
<script>
  function createPage() {
    const createButton = document.getElementById("createButton");
    createButton.parentNode.removeChild(createButton);
    const containerDiv = document.createElement("div");
    containerDiv.id = "container";
    const h1 = document.createElement("h1");
    h1.textContent = "Dynamic Page Creation";
    containerDiv.appendChild(h1);
    const paragraph = document.createElement("p");
    paragraph.textContent = "Lorem ipsum dolor sit amet, consectetur adipiscing
elit.";
    containerDiv.appendChild(paragraph);
    const ol = document.createElement("ol");
    for (let i = 0; i < 2; i++) {
      const li = document.createElement("li");
      li.textContent = "Item " + (i + 1);
      ol.appendChild(li);
    }
    containerDiv.appendChild(ol);
    document.body.appendChild(containerDiv);
  }
  document.getElementById("createButton").addEventListener("click", createPage);
</script>

</body>
</html>
```

Web Page:

T7: Code:

```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;
    text-align: center;
    background-color: #f0f0f0;
  }
  .container {
    max-width: 400px;
    margin: 100px auto;
    padding: 20px;
    background-color: #fff;
    border-radius: 8px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
  }
  input[type="number"] {
    width: 100px;
    padding: 8px;
    margin: 5px;
    border-radius: 4px;
    border: 1px solid #ccc;
  }
  button {
    padding: 10px 20px;
    font-size: 16px;
    background-color: #4CAF50;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
  }
  #tipAmount {
    margin-top: 20px;
    font-size: 20px;
    font-weight: bold;
  }
</style>
</head>
<body>

<div class="container">
  <label for="totalAmount">Total Amount (₹):</label>
```

```html
    <input type="number" id="totalAmount">
    <br>
    <label for="tipPercentage">Tip Percentage (%):</label>
    <input type="number" id="tipPercentage">
    <br>
    <label for="numPeople">Number of People:</label>
    <input type="number" id="numPeople">
    <br>
    <button onclick="calculateTip()">Calculate Tip</button>
    <div id="tipAmount"></div>
</div>

<script>
  function calculateTip() {
    const totalAmount = parseFloat(document.getElementById("totalAmount").value);
    const tipPercentage =
parseFloat(document.getElementById("tipPercentage").value);
    const numPeople = parseInt(document.getElementById("numPeople").value);

    if (isNaN(totalAmount) || isNaN(tipPercentage) || isNaN(numPeople) ||
totalAmount <= 0 || tipPercentage < 0 || numPeople <= 0) {
      document.getElementById("tipAmount").innerText = "Please enter valid
numbers.";
    } else {
      const tipAmount = (totalAmount * (tipPercentage / 100)) / numPeople;
      document.getElementById("tipAmount").innerText = "Tip Amount per Person: ₹" +
tipAmount.toFixed(2);
    }
  }
</script>
</body>
</html>
```

Web Page: