Name - Kaushal Kumar
Roll No. - 22it3019

T1.

```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>
  /* Define animation */
  @keyframes spin {
    0% { transform: rotate(0deg); }
    100% { transform: rotate(360deg); }
  }

  /* Apply animation to the h2 element */
  h2.spin {
    animation: spin 2s linear infinite;
  }
</style>
</head>
<body>
<h2 id="hello">Hello</h2>
<input type="text" id="wordInput">
<button onclick="changeWord()">Change Word</button>

<script>
  function changeWord() {
    var input = document.getElementById("wordInput").value;
    if (input.trim() !== "") {
      var h2 = document.getElementById("hello");
      h2.textContent = input;
      h2.classList.add("spin");
    }
  }
</script>
</body>
</html>
```
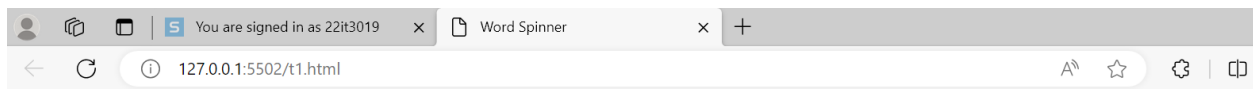
T2.

```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>
  var count = 0;

  function incrementCount() {
    count++;
    var paragraph = document.getElementById("count");
    paragraph.textContent = count;
```
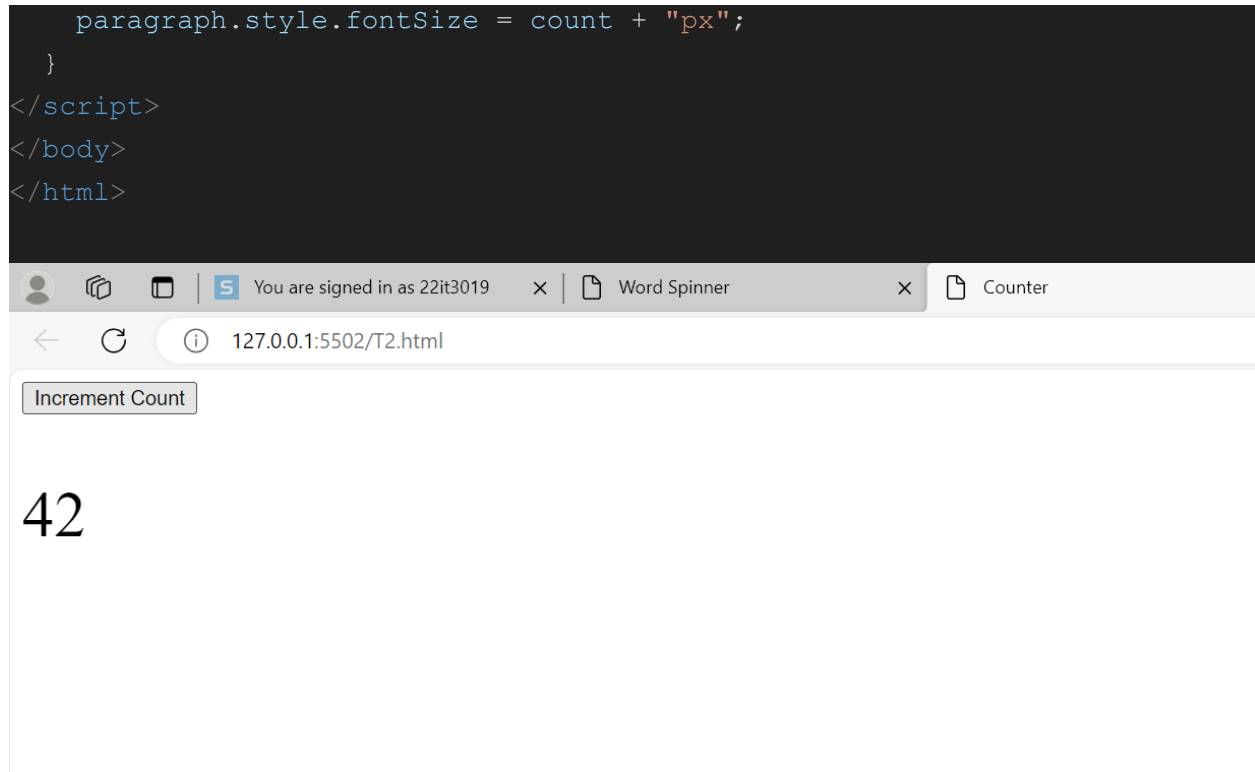
```
    paragraph.style.fontSize = count + "px";
  }
</script>
</body>
</html>
```

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Increment Count

42

T3.

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

<script>
  var count = 0;

  function incrementCount() {
    count++;
```
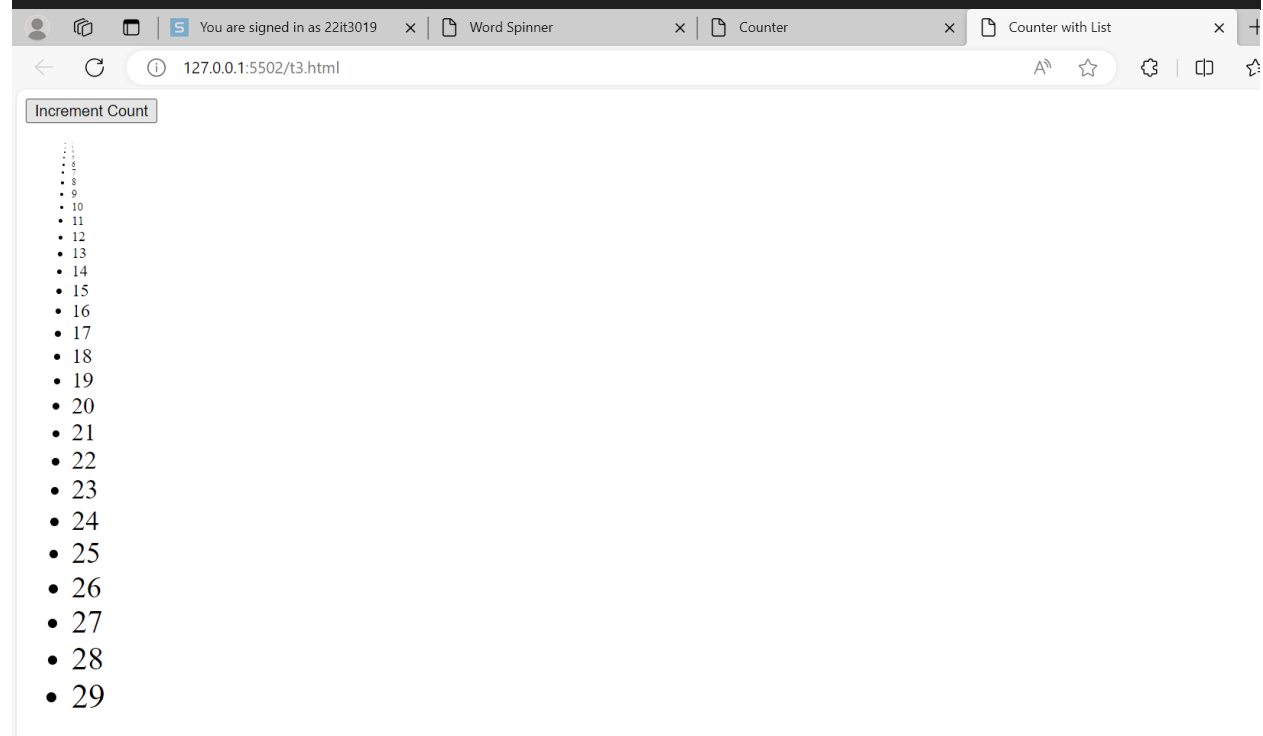
```
        var list = document.getElementById("countList");
        var listItem = document.createElement("li");
        listItem.textContent = count;
        listItem.style.fontSize = count + "px";
        list.appendChild(listItem);
    }
</script>
</body>
</html>
```

Increment Count

- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28
- 29

T4.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>T4</title>
<style>
    table {
        width: 100%;
        border-collapse: collapse;
    }
```

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

</style>
</head>
<body>
<h2>Dynamic Table</h2>
<table id="dynamicTable">
  <tr>
    <th>Row</th>
    <th>Sum</th>
  </tr>
  <tr>
    <td>1</td>
    <td>1</td>
  </tr>
  <tr>
    <td>2</td>
    <td>1</td>
  </tr>
</table>
<button onclick="addRow()">Add Row</button>

<script>
    function addRow() {
        var table = document.getElementById("dynamicTable");
        var rows = table.getElementsByTagName("tr");
        var lastRow = rows[rows.length - 1];
        var prevRow = rows[rows.length - 2];
        var newRow = table.insertRow(-1);

        var cell1 = newRow.insertCell(0);
        var cell2 = newRow.insertCell(1);

        var currentRowNum = parseInt(lastRow.cells[0].innerText) + 1;
        var sum = parseInt(lastRow.cells[1].innerText) +
parseInt(prevRow.cells[1].innerText);
```

```
            cell1.innerText = currentRowNum;
            cell2.innerText = sum;
        }


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

Row	Sum
1	1
2	1
3	2
4	3
5	5
6	8

Add Row

T5.

```
<!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="num1" placeholder="Enter a number">
<input type="text" id="num2" placeholder="Enter a number">
<button onclick="calculate('+')">+</button>
<button onclick="calculate('-')">-</button>
<button onclick="calculate('*')">*</button>
<button onclick="calculate('/')">/</button>
<p id="result"></p>

<script>
    function calculate(operator) {
```
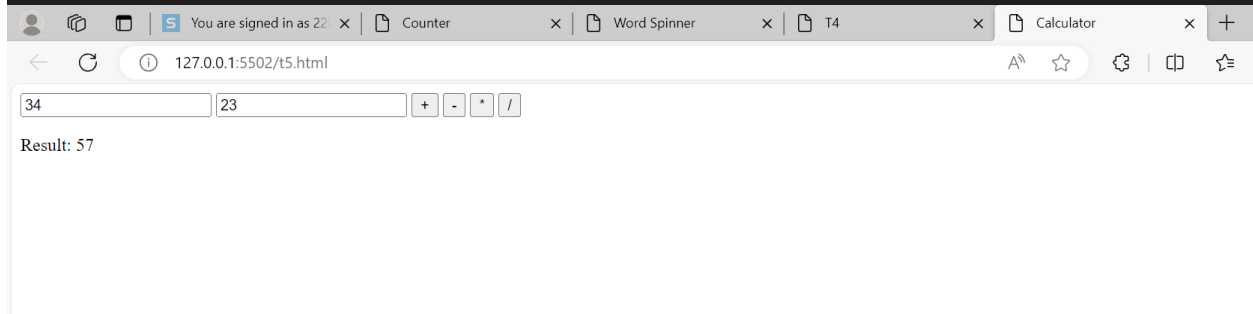
```
    var num1 = Number.parseInt(document.getElementById("num1").value);
    var num2 = Number.parseInt(document.getElementById("num2").value);
    var result = 0;
    switch(operator) {
      case '+':
        result = num1 + num2;
        break;
      case '-':
        result = num1 - num2;
        break;
      case '*':
        result = num1 * num2;
        break;
      case '/':
        result = num1 / num2;
        break;
    }
    document.getElementById("result").textContent = "Result: " + result;
  }
</script>
</body>
</html>
```

Result: 57

T6.

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```html
<title>Dynamic Page Creation</title>

<style>

  body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

  }

  .container {

max-width: 800px;

margin: 20px auto;

padding: 20px;

background-color: #f0f0f0;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

  }

  h1 {

text-align: center;

  }

  .image-container {

text-align: center;
```

```
margin-top: 20px;

  }

  img {

max-width: 100%;

height: auto;

  }

</style>

</head>

<body>

<button onclick="makePage();">Click Here</button>

<script>

function makePage() {

  const container = document.createElement('div');

  container.classList.add('container');


  const heading = document.createElement('h1');

  heading.textContent = 'Dynamic Page Created';
```

```javascript
  const paragraph = document.createElement('p');

  paragraph.textContent = 'This page is dynamically created using
JavaScript!';


  const imageContainer = document.createElement('div');

  imageContainer.classList.add('image-container');


  const image = document.createElement('img');

  image.src = 'https://via.placeholder.com/400';


  container.appendChild(heading);

  container.appendChild(paragraph);

  imageContainer.appendChild(image);

  container.appendChild(imageContainer);


  document.body.appendChild(container);

}

</script>


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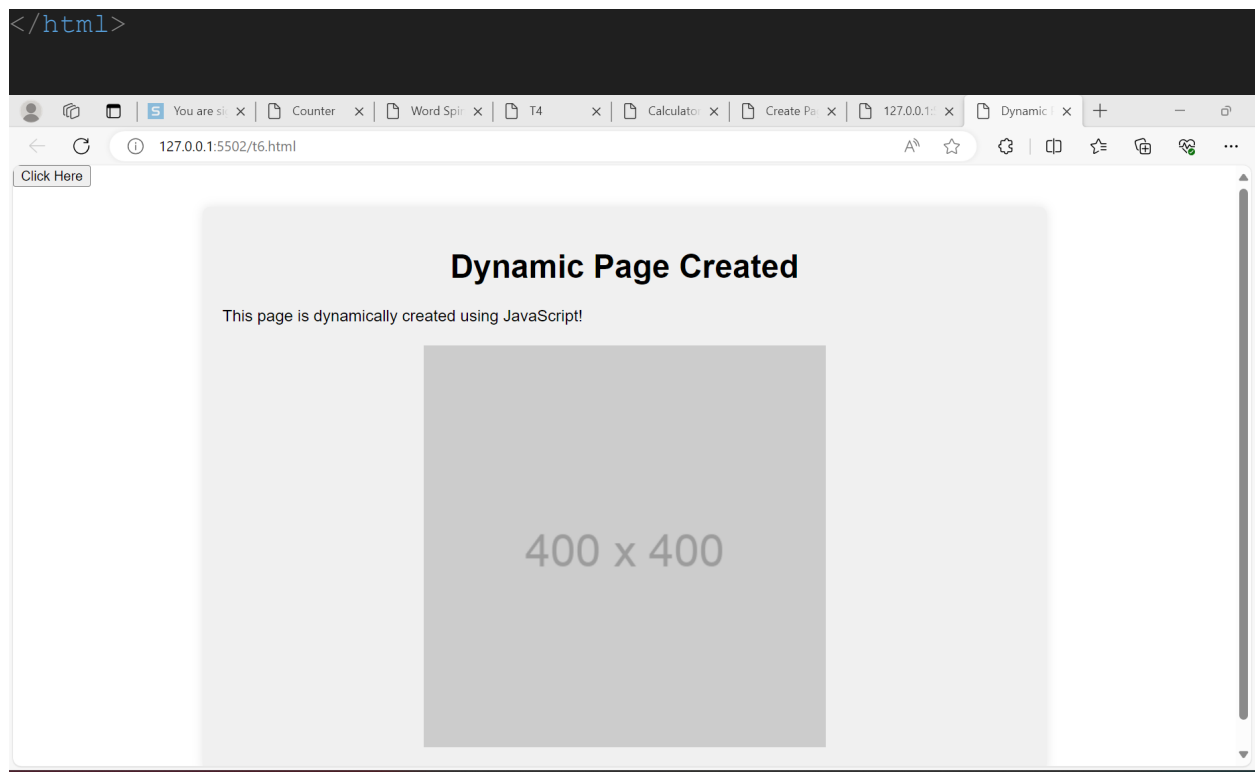
```
</html>
```


T7.

```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;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    background-color: #f0f0f0;
  }

  .container {
    background-color: #fff;
```

```css
  padding: 20px;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

.input-group {
  margin-bottom: 10px;
}

.input-group label {
  display: block;
  margin-bottom: 5px;
  font-weight: bold;
}

.input-group input[type="number"] {
  width: 100%;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 5px;
  font-size: 16px;
}

.input-group select {
  width: 100%;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 5px;
  font-size: 16px;
}

button {
  padding: 10px 20px;
  background-color: #007bff;
  border: none;
  color: #fff;
  font-size: 16px;
  border-radius: 5px;
  cursor: pointer;
}
```

```html
  button:hover {
    background-color: #0056b3;
  }

  .result {
    margin-top: 20px;
  }
</style>
</head>
<body>
<div class="container">
  <div class="input-group">
    <label for="billAmount">Bill Amount ($)</label>
    <input type="number" id="billAmount" placeholder="Enter bill amount">
  </div>
  <div class="input-group">
    <label for="tipPercentage">Tip Percentage (%)</label>
    <select id="tipPercentage">
      <option value="5">5%</option>
      <option value="10">10%</option>
      <option value="15">15%</option>
      <option value="20">20%</option>
      <option value="25">25%</option>
    </select>
  </div>
  <div class="input-group">
    <label for="split">Number of People to Split With</label>
    <input type="number" id="split" min="1" placeholder="Enter number of
people">
  </div>
  <button onclick="calculateTip()">Calculate Tip</button>
  <div class="result" id="tipResult"></div>
</div>

<script>
  function calculateTip() {
    var billAmount =
parseFloat(document.getElementById("billAmount").value);
```

```
    var tipPercentage =
parseInt(document.getElementById("tipPercentage").value);
    var split = parseInt(document.getElementById("split").value);

    if (isNaN(billAmount) || isNaN(tipPercentage) || isNaN(split) ||
billAmount <= 0 || tipPercentage < 0 || split <= 0) {
        document.getElementById("tipResult").textContent = "Please enter
valid inputs.";
        return;
    }

    var tipAmount = (billAmount * tipPercentage) / 100;
    var totalAmount = billAmount + tipAmount;
    var amountPerPerson = totalAmount / split;

    document.getElementById("tipResult").innerHTML = `
        <p>Tip Amount: $${tipAmount.toFixed(2)}</p>
        <p>Total Amount: $${totalAmount.toFixed(2)}</p>
        <p>Amount Per Person: $${amountPerPerson.toFixed(2)}</p>
        `;
  }
</script>
</body>
</html>
```

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Bill Amount ($)

3000000

Tip Percentage (%)

5%

Number of People to Split With

3

Calculate Tip

Tip Amount: $150000.00

Total Amount: $3150000.00

Amount Per Person: $1050000.00