

WEB TECHNOLOGY

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T1.

```
<!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;
      font-family: Arial, sans-serif;
    }

    h2 {
      transition: transform 0.5s ease-in-out;
    }

    input {
      padding: 5px;
      margin-right: 10px;
    }

    button {
      padding: 5px;
      cursor: pointer;
    }

    @keyframes spin {
      from {
        transform: rotate(0deg);
      }
      to {
        transform: rotate(360deg);
      }
    }
  </style>
</head>
<body>
  <h2>Simple Web Page</h2>
  <input type="text" value="Enter your name" />
  <button type="button" value="Submit" />
</body>
</html>
```

```
}

.spin-animation {
  animation: spin 2s linear infinite;
}

</style>
</head>
<body>

  <h2 id="helloHeader">Hello</h2>
  <input type="text" id="textInput" placeholder="Type a word or phrase">
  <button onclick="changeText()">Change Text</button>

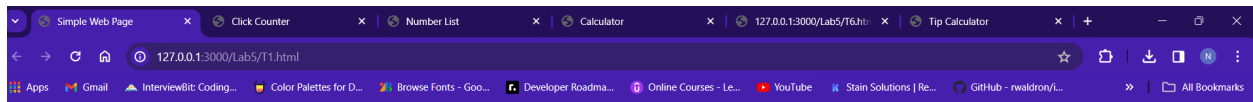
  <script>
    function changeText() {
      var inputText = document.getElementById("textInput").value;
      var helloHeader = document.getElementById("helloHeader");

      // Replace the old h2 with the entered word
      helloHeader.innerHTML = inputText;

      // Add animation class to make the word spin
      helloHeader.classList.add("spin-animation");

      // Remove the animation class after the animation completes
      setTimeout(function() {
        helloHeader.classList.remove("spin-animation");
      }, 500);
    }
  </script>

</body>
</html>
```



Hello

T2.

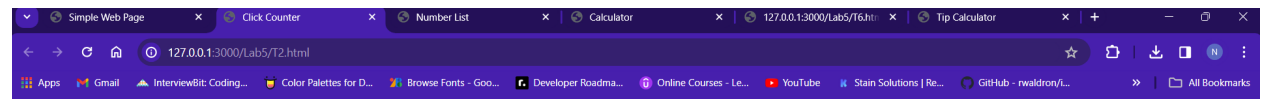
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Click Counter</title>
  <style>
    #count {
      font-size: 24px;
      margin-bottom: 10px;
    }
  </style>
</head>
<body>
  <p id="count">0</p>
  <button onclick="incrementCount()">Click Me!</button>

  <script>
    let count = 0;

    function incrementCount() {
      count++;
      document.getElementById("count").innerHTML = count;
      document.getElementById("count").style.fontSize = (count * 2) + "px";
    }
  </script>
</body>
</html>
```

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

Output:



11

Click Me!

T3.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Number List</title>
  <style>
    #numberList {
      list-style: none;
      padding: 0;
      margin: 0;
    }
    #numberList li {
      font-size: 24px;
      margin-bottom: 10px;
    }
  </style>
</head>
<body>
  <ul id="numberList"></ul>
  <button onclick="addNumber()">Add Number</button>

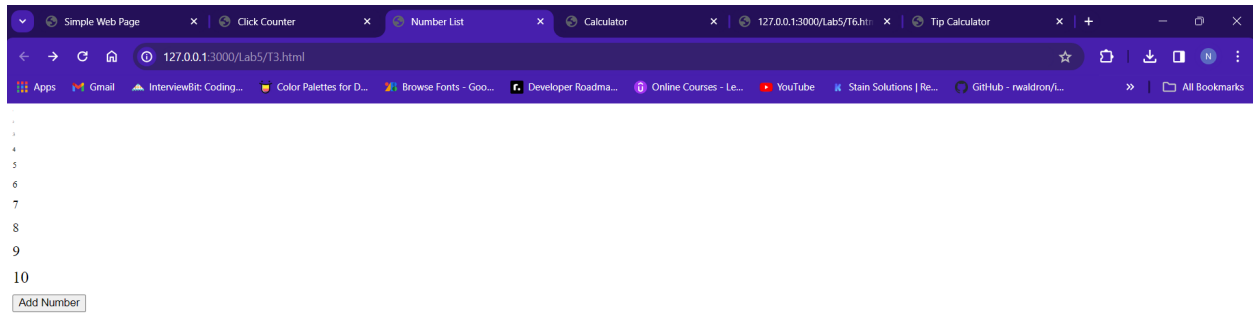
  <script>
    let numbers = [];

    function addNumber() {
      const number = numbers.length + 1;
      numbers.push(number);

      const li = document.createElement("li");
      li.textContent = number;
      li.style.fontSize = (number * 2) + "px";

      const numberList = document.getElementById("numberList");
      numberList.appendChild(li);
    }
  </script>
</body>
</html>
```

OUTPUT:



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="number1" placeholder="Enter first number">
  <input type="text" id="number2" placeholder="Enter second number">
  <br>
  <button onclick="calculate('+')">+</button>
  <button onclick="calculate('-')">-</button>
  <button onclick="calculate('*')">*</button>
  <button onclick="calculate('/')">/</button>
  <br>
  <p id="result"></p>

  <script>
    function calculate(operator) {
      const number1 =
Number.parseFloat(document.getElementById("number1").value);
      const number2 =
Number.parseFloat(document.getElementById("number2").value);

      let result;
      switch (operator) {
        case '+':
          result = number1 + number2;
          break;
        case '-':
```

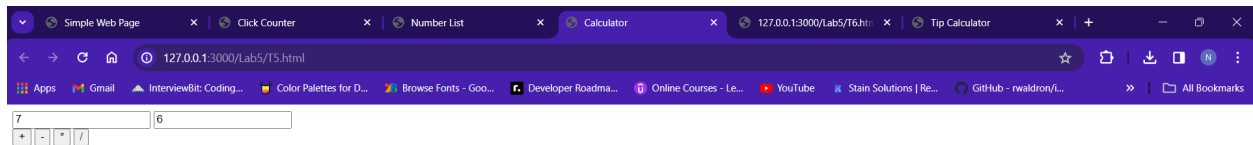
```

        result = number1 - number2;
        break;
    case '*':
        result = number1 * number2;
        break;
    case '/':
        // Check for division by zero
        if (number2 === 0) {
            result = "Error: Division by zero";
        } else {
            result = number1 / number2;
        }
        break;
    default:
        result = "Invalid operator";
    }

    document.getElementById("result").textContent = result;
}
</script>
</body>
</html>

```

OUTPUT:



T6.

```
<html>
<body>
<button onclick="makePage();">Click Here</button>
</body>
<script>function makePage() {
    // Create the main container element
    const container = document.createElement('div');
    container.classList.add('container'); // Add a CSS class for styling

    // Create the heading element
    const heading = document.createElement('h1');
    heading.textContent = 'I am an H1';

    // Create the paragraph element
    const paragraph = document.createElement('p');
    paragraph.textContent = 'This is a paragraph followed by a list';

    // Create the ordered list element
    const list = document.createElement('ol');

    // Create and add list items
    const listItem1 = document.createElement('li');
    listItem1.textContent = 'I. This is first';
    list.appendChild(listItem1);

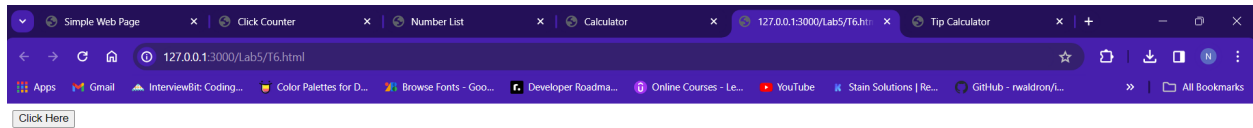
    const listItem2 = document.createElement('li');
    listItem2.textContent = 'II. This is second';
    list.appendChild(listItem2);

    // Append elements to the container
    container.appendChild(heading);
    container.appendChild(paragraph);
    container.appendChild(list);

    // Add the container to the body
    document.body.appendChild(container);
}

// Call the function to create the page
makePage();
</script>
</html>
```


OUTPUT:



I am an H1

This is a paragraph followed by a list

1. I. This is first
2. II. This is second

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>
  <link rel="stylesheet" href="./T7.css">
</head>
<body>
  <h1>Tip Calculator</h1>

  <div class="calculator">
    <div class="inputs">
      <label for="amount">Bill Amount:</label>
      <input type="number" id="amount" placeholder="Enter amount">

      <div class="tip-options">
        <label for="tip-percentage">Tip Percentage:</label>
        <input type="range" id="tip-percentage" min="0" max="100" value="15">
        <span id="tip-percentage-value">15%</span>
      </div>

      <label for="people">Number of People:</label>
      <input type="number" id="people" min="1" value="1">
    </div>

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

```

    <div id="results">
      <p>Tip Amount: <span id="tip-amount"></span></p>
      <p>Total per Person: <span id="total-per-person"></span></p>
    </div>
  </div>

  <script src="./T7.js"></script>
</body>
</html>

```

CSS:

```

.calculator {
  display: flex;
  flex-direction: column;
  width: 300px;
  margin: 0 auto;
  padding: 20px;
  border: 1px solid #ddd;
  border-radius: 5px;
}

.inputs {
  display: flex;
  flex-direction: column;
  margin-bottom: 10px;
}

.inputs label {
  margin-bottom: 5px;
}

.tip-options {
  display: flex;
  align-items: center;
}

.tip-options input[type="range"] {
  width: 100px;
  margin-right: 10px;
}

#results {
  margin-top: 20px;
}

```

```
}

#results p {
  margin-bottom: 5px;
}
```

JS:

```
const amountInput = document.getElementById('amount');
const tipPercentageInput = document.getElementById('tip-percentage');
const peopleInput = document.getElementById('people');
const tipAmountSpan = document.getElementById('tip-amount');
const totalPerPersonSpan = document.getElementById('total-per-person');
let displayedTipPercentage = parseFloat(tipPercentageSpan.textContent.slice(0, -1)) / 100;

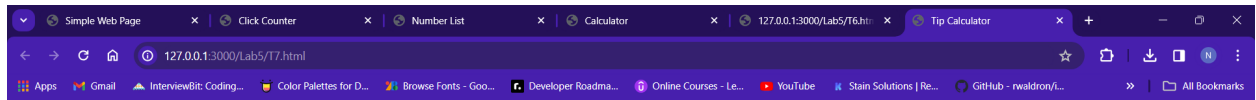
function calculateTip() {
  const amount = parseFloat(amountInput.value);
  const tipPercentage = parseFloat(document.getElementById('tip-percentage').value) / 100;
  const people = parseInt(peopleInput.value);

  const tipAmount = amount * tipPercentage;
  const totalPerPerson = tipAmount / people;

  tipAmountSpan.textContent = tipAmount.toFixed(2);
  totalPerPersonSpan.textContent = totalPerPerson.toFixed(2);
}

tipPercentageInput.addEventListener('input', () => {
  const value = tipPercentageInput.value;
  tipPercentageSpan.textContent = `${value}%`;
});
```

OUTPUT:



Tip Calculator

Bill Amount:

Tip Percentage:

15%

Number of People:

Calculate Tip

Tip Amount: 15.00

Total per Person: 15.00