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## Web Technology

T1->

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Dynamic Text Replacement</title>
</head>
<body>

<div id="container">
  <h2><span id="dynamicText">Hello</span></h2>
  <input type="text" id="textInput" placeholder="Type
here">
  <button onclick="replaceText()">Replace
Text</button>
</div>

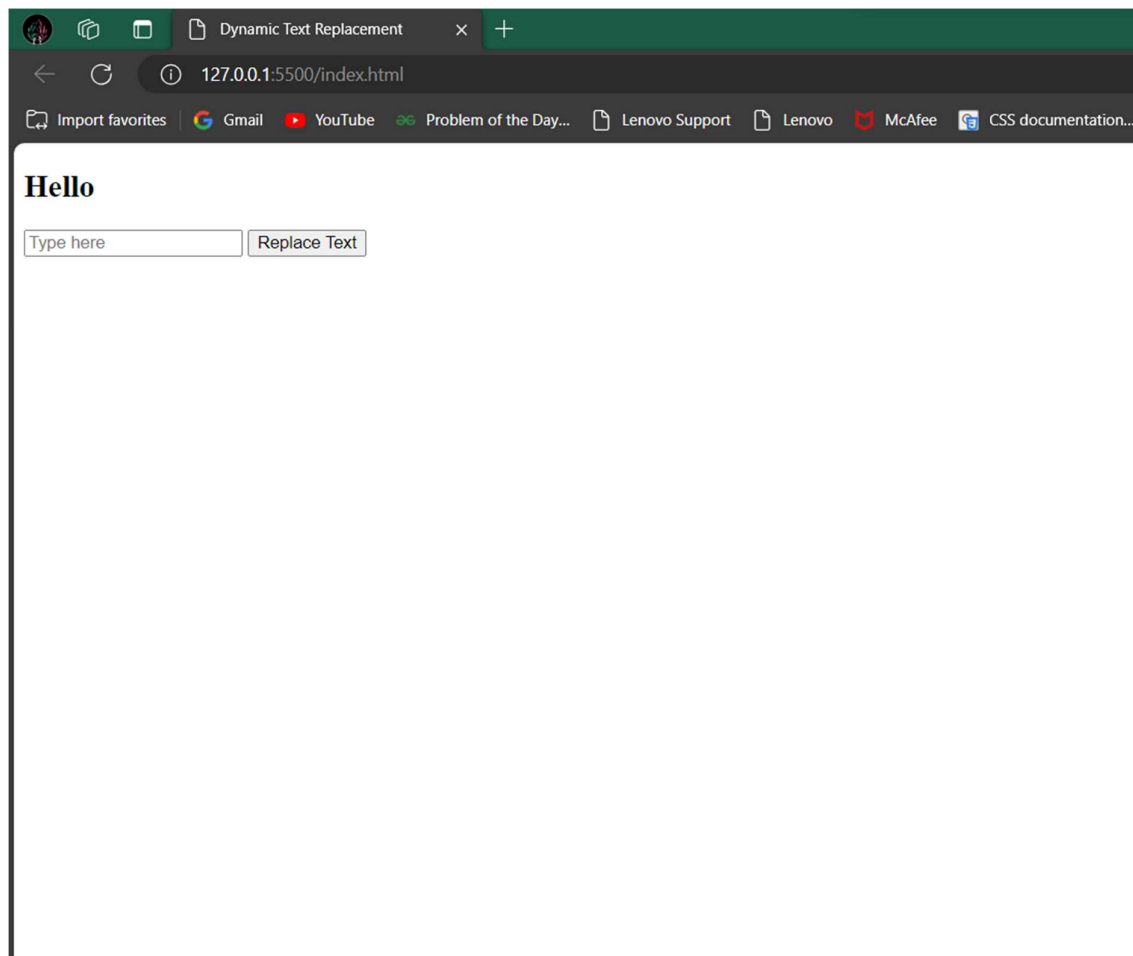
<script>
  function replaceText() {
    const newText =
document.getElementById('textInput').value;
    const dynamicText =
document.getElementById('dynamicText');
    dynamicText.innerText = newText;
    dynamicText.parentElement.classList.add('spin');
  }
</script>
```

```
<style>
  .spin {
    animation: spin 2s linear infinite;
    transform-origin: center;
  }

  @keyframes spin {
    from {
      transform: rotate(0deg);
    }
    to {
      transform: rotate(360deg);
    }
  }
</style>

</body>
</html>
```

Output:



T2→

```
<!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;
  }
</style>
</head>
<body>
```

```
<p id="count">0</p>
<button onclick="incrementCount()">Increment</button>

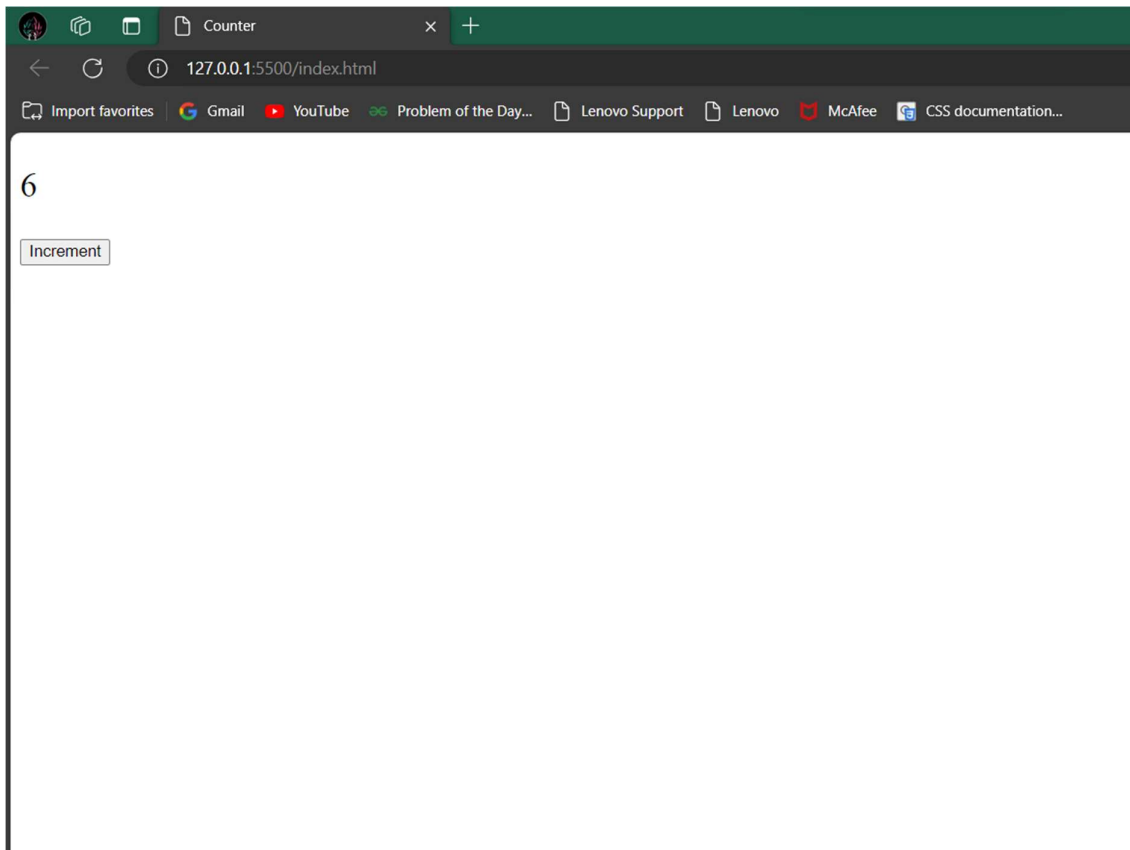
<script>
  let count = 0;
  const countElement =
document.getElementById('count');

  function incrementCount() {
    count++;
    countElement.innerText = count;
    updateFontSize();
  }

  function updateFontSize() {
    const fontSize = 16 + count * 2;
    countElement.style.fontSize = `${fontSize}px`;
  }
</script>

</body>
</html>
```

Output:



T3→

Code:

```
<!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;
  }
</style>
```

```
</head>
<body>

<ul id="countList"></ul>
<button onClick="incrementCount()">Increment</button>

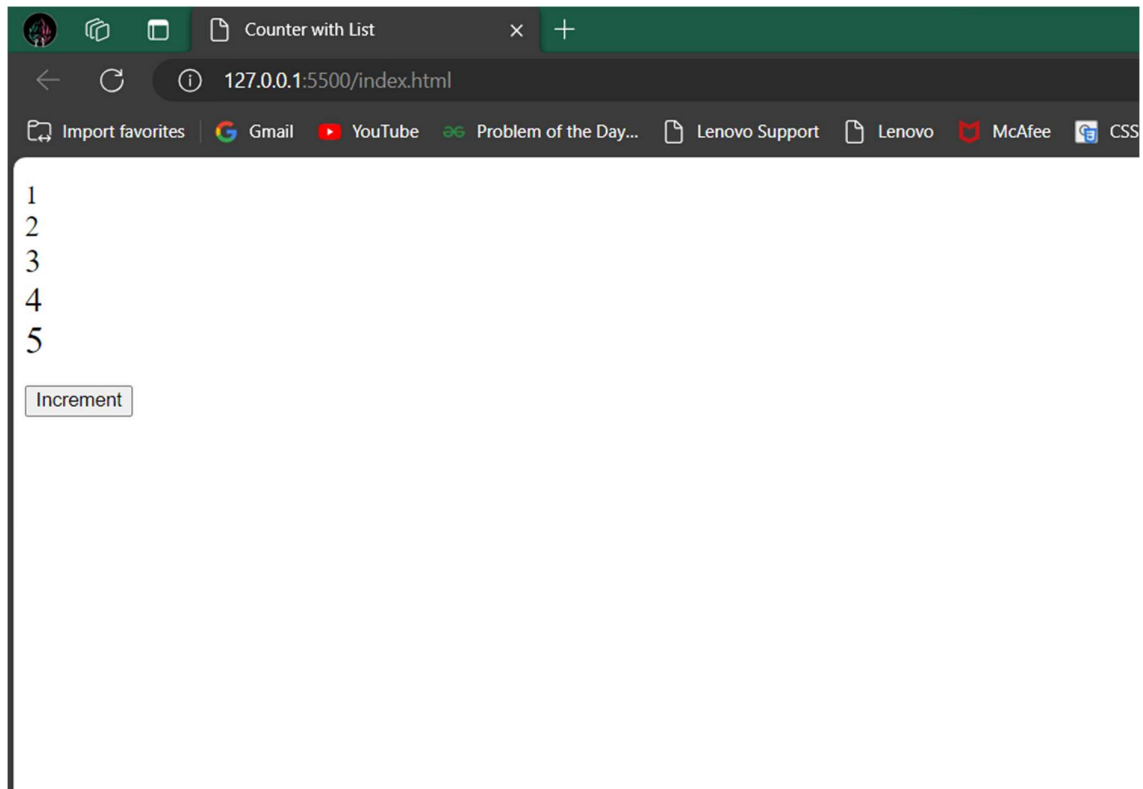
<script>
  let count = 0;
  const countList =
document.getElementById('countList');

  function incrementCount() {
    count++;
    const newItem = document.createElement('li');
    newItem.textContent = count;
    updateFontSize(newItem);
    countList.appendChild(newItem);
  }

  function updateFontSize(item) {
    const fontSize = 16 + count * 2; // Increase font
size by 2px for each increment
    item.style.fontSize = `${fontSize}px`;
  }
</script>

</body>
</html>
```

Output:



T4→

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Add Row with Sum</title>
</head>
<body>

<table id="dataTable" border="1">
  <tr>
    <th>Number</th>
  </tr>
  <tr>
```

```
        <td>1</td>
    </tr>
    <tr>
        <td>1</td>
    </tr>
</table>

<button onclick="addRowWithSum()">Add Row with
Sum</button>

<script>
    function addRowWithSum() {
        const table =
document.getElementById('dataTable');
        const rows = table.getElementsByTagName('tr');

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

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

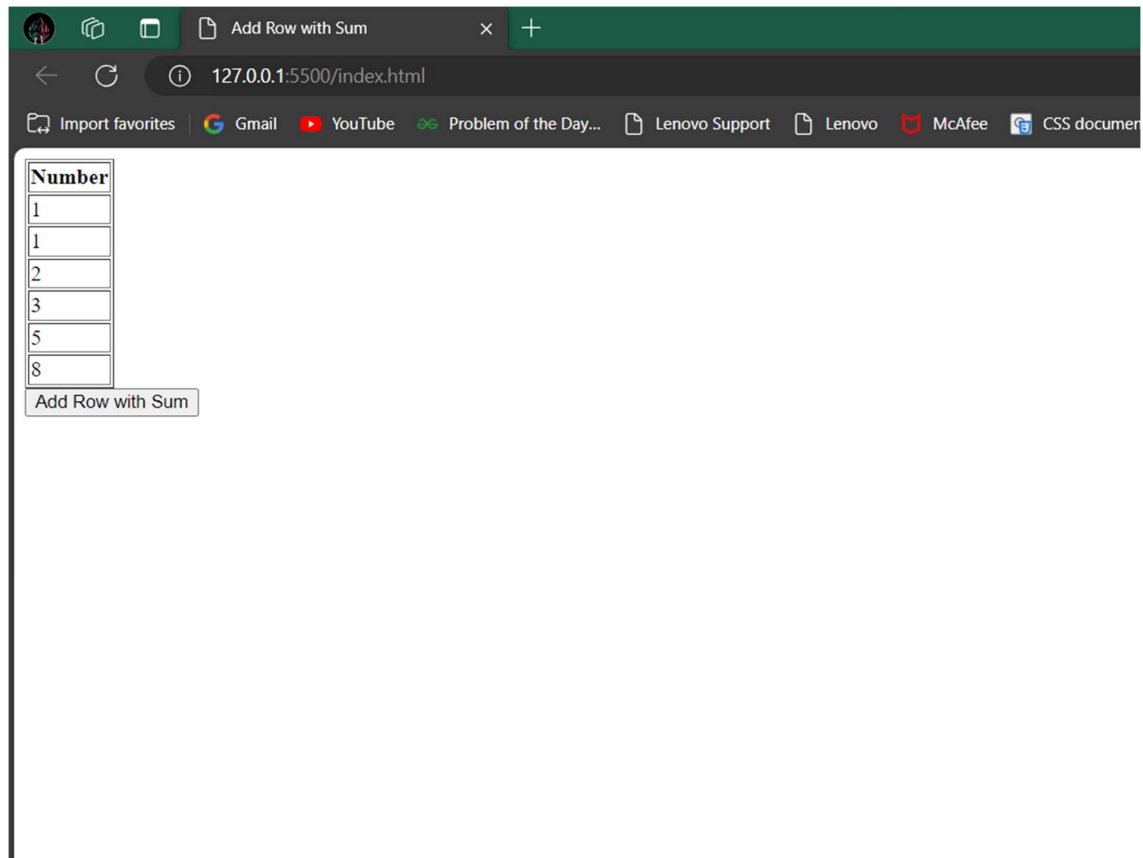
        const newRow = document.createElement('tr');
        const newData = document.createElement('td');
        newData.innerText = sum;

        newRow.appendChild(newData);
        table.appendChild(newRow);
    }
</script>

</body>
</html>
```



Output:



The screenshot shows a web browser window with the title "Add Row with Sum". The address bar displays "127.0.0.1:5500/index.html". The browser's toolbar includes links to "Import favorites", "Gmail", "YouTube", "Problem of the Day...", "Lenovo Support", "Lenovo", "McAfee", and "CSS document". The main content area features a table with a header "Number" and six rows containing the values 1, 1, 2, 3, 5, and 8. Below the table is a button labeled "Add Row with Sum".

Number
1
1
2
3
5
8

Add Row with Sum

T5→

Code:

```
<!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="input1">
<input type="text" id="input2">
<br>
<button onclick="calculate('+')">+</button>
<button onclick="calculate('-')">-</button>
<button onclick="calculate('*')">*</button>
<button onclick="calculate('/')">/</button>
<div id="result"></div>

<script>
  function calculate(operator) {
    const input1 =
Number.parseInt(document.getElementById('input1').valu
e);
    const input2 =
Number.parseInt(document.getElementById('input2').valu
e);
    let result;

    switch(operator) {
      case '+':
        result = input1 + input2;
        break;
      case '-':
        result = input1 - input2;
        break;
      case '*':
        result = input1 * input2;
        break;
      case '/':
        if (input2 !== 0) {
          result = input1 / input2;
        } else {
          result = 'Cannot divide by zero';
        }
      }
    }
  }
}
```

```

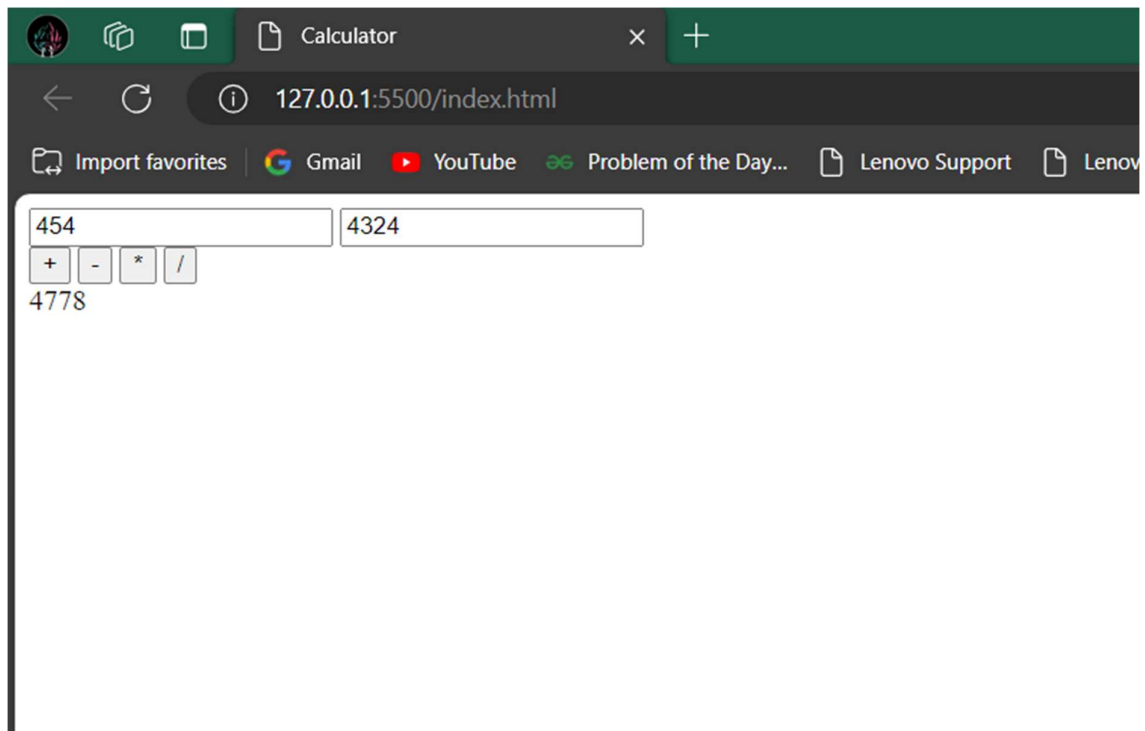
    }
    break;
  default:
    result = 'Invalid operator';
  }

  document.getElementById('result').innerText =
result;
}
</script>

</body>
</html>

```

Output:



T6→

Code:

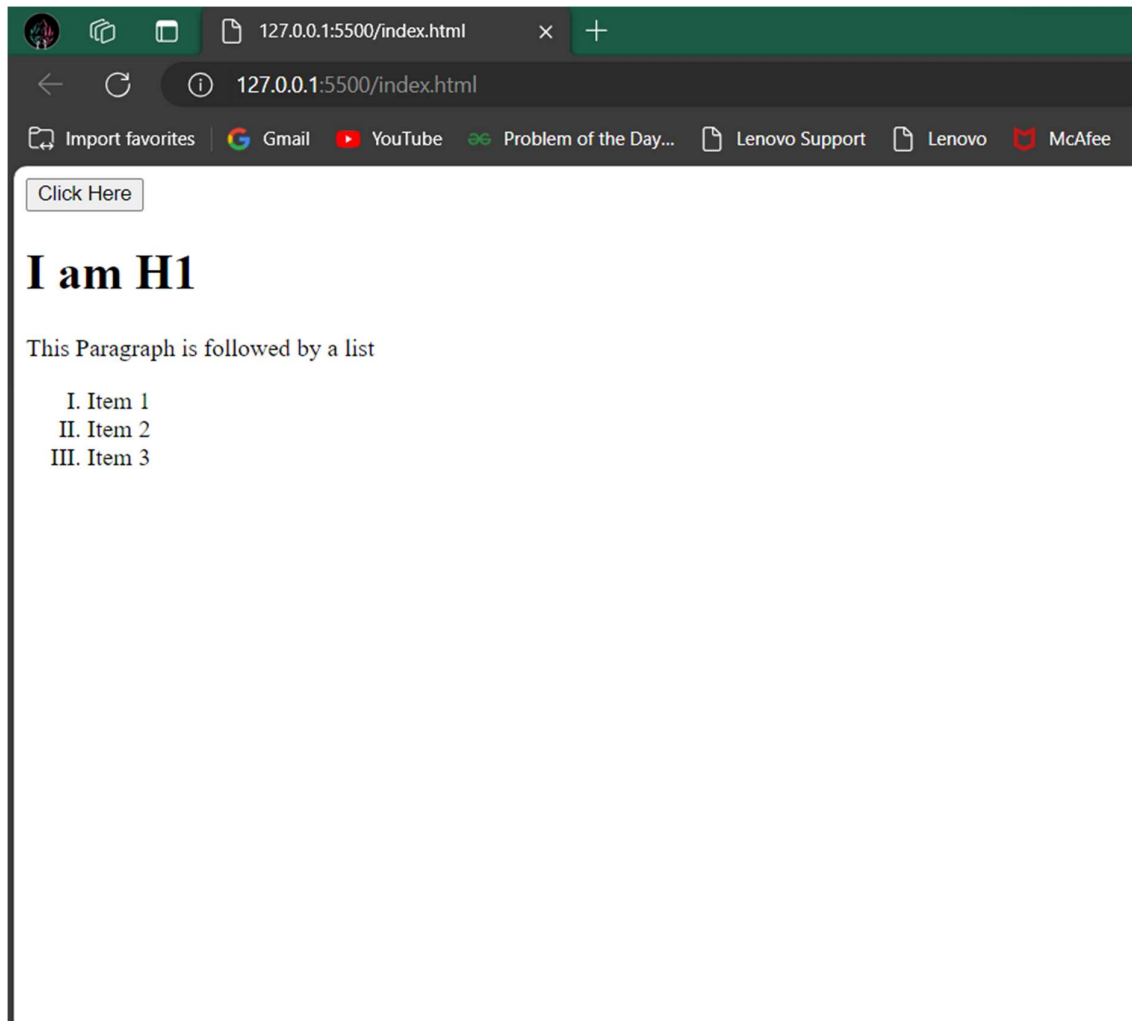
```
<html>
<body>
<button onclick="makePage();">Click Here</button>
</body>
<script>
    function makePage(){
        let x = document.createElement("h1");
        x.textContent = "I am H1";

        let para = document.createElement("p");
        para.textContent = "This Paragraph is followed
by a list";

        let list = document.createElement("ol");
        list.type = "I"
        for (let i = 1; i <= 3; i++) {
            let listItem =
document.createElement("li");
            listItem.textContent = `Item ${i}`;
            list.appendChild(listItem);
        }

        document.body.appendChild(x);
        document.body.appendChild(para);
        document.body.appendChild(list);
    }
</script>
</html>
```

Output:



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</title>
</head>
<body>

<div>
```

```
<label for="amount">Amount:</label>
<input type="number" id="amount" min="0"
step="0.01">
</div>
<div>
  <label for="tipPercentage">Tip Percentage:</label>
  <input type="number" id="tipPercentage" min="0"
step="1">
  <span>%</span>
</div>
<div>
  <label for="numPeople">Number of People:</label>
  <input type="number" id="numPeople" min="1"
step="1">
</div>
<button onClick="calculateTip()">Calculate
Tip</button>
<div id="result"></div>

<script>
  function calculateTip() {
    const amount =
parseFloat(document.getElementById('amount').value);
    const tipPercentage =
parseFloat(document.getElementById('tipPercentage').va
lue);
    const numPeople =
parseInt(document.getElementById('numPeople').value);

    if (isNaN(amount) || isNaN(tipPercentage) ||
isNaN(numPeople) || amount <= 0 || tipPercentage < 0
|| numPeople < 1) {
      document.getElementById('result').innerText =
'Please enter valid values';
    }
  }
}
```

```

        return;
    }

    const tipAmount = (amount * tipPercentage) / 100;
    const totalAmount = amount + tipAmount;
    const amountPerPerson = totalAmount / numPeople;

    document.getElementById('result').innerText =
`Tip: ${tipAmount.toFixed(2)} | Total:
${totalAmount.toFixed(2)} | Per Person:
${amountPerPerson.toFixed(2)}`;
    }
</script>

</body>
</html>

```

Output:

Tip Calculator

127.0.0.1:5500/index.html

Import favorites Gmail YouTube Problem of the Day... Lenovo Support Lenovo McAfee CSS documentation...

Amount: 154953

Tip Percentage: 32 %

Number of People: 32

Calculate Tip

Tip: \$49584.96 | Total: \$204537.96 | Per Person: \$6391.81

