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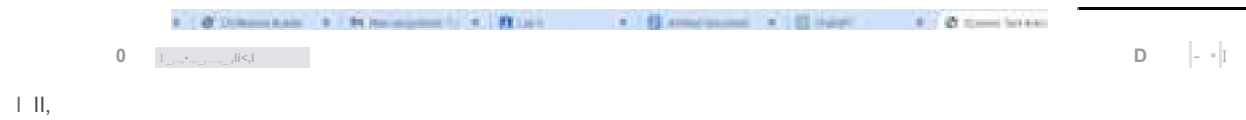
```
01. <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Dynamic Text Animation</title>
<style>
  #hello {
    transition: transform 0.5s ease-in-out;
  }
</style>
</head>
<body>
<h2 id="hello">Hello</h2>
<input type="text" id="textInput" placeholder="Enter text">
<button id="changeTextBtn">Change Text</button>

<script>
  const helloHeading = document.getElementById('hello'); const
  textInput = document.getElementById('textInput'); const
  changeTextBtn = document.getElementById('changeTextBtn');

  changeTextBtn.addEventListener('click', () => { const
    newText = textInput.value.trim();
    if (newText) {
      helloHeading.textContent = newText;
      helloHeading.style.transform = 'rotate(0deg)';
      // Trigger reflow
      void helloHeading.offsetWidth;
      helloHeading.style.transform = 'rotate(360deg)';
    }
  });
```

</script>

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

```

#count{
  font-size: 16px; /* Initial font size*/
  transition: font-size 0.2s ease-in-out;
}
</style>
</head>
<body>
<button id="incrementBtn"
onclick="incrementCounter()">Increment</button>
<p id="count">0</p>
<script>
  let count= 0;

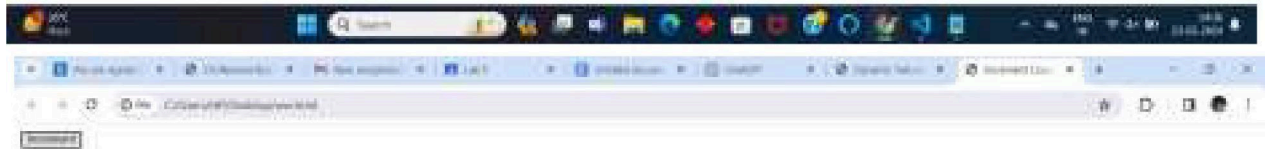
  function incrementCounter() { count++;
    document.getElementById('count').innerText = count;
    updateFontSize();
  }

  function updateFontSize() {
    // Increase font size as the count gets larger const
    baseFontSize = 16;
    const fontSizeIncrement = 2; // Adjust this value as needed
    document.getElementById('count').style.fontSize = baseFontSize + count*
fontSizeIncrement + 'px';
  }
</script>
</body>
</html>

```



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03. <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Increment Counter with List</title>
<style> #count{
    font-size: 16px; /* Initial font size*/
    transition: font-size 0.2s ease-in-out;
}
</style>
</head>
<body>
<button id="incrementBtn"
onclick="incrementCounter()">Increment</button>
<ul id="countlist">
    <!-- Initial list item -->
    <li id="countItem">0</li>
</ul>

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

```
function incrementCounter() { count++;  
  const newListItem = document.createElement('li');  
  newListItem.textContent = count;  
  countlist.appendChild(newListItem);  
  updateFontSize(newListItem);  
}
```

```
function updateFontSize(listItem) {  
  // Increase font size as the count gets larger const  
  baseFontSize = 16;  
  const fontSizeIncrement = 2; // Adjust this value as needed  
  listItem.style.fontSize = baseFontSize + count* fontSizeIncrement + 'px';  
}
```

```
</script>
```

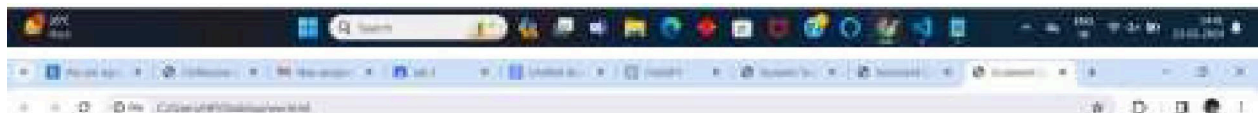
```
</body>
```

```
</html>
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04. <!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 to Table</title>

</head>

<body>

<button id="addRowBtn">Add Row</button>


```

<table id="dataTable">
  <thead>
    <tr>
      <th>Row</th>
      <th>Sum</th>
    </tr>
  </thead>
  <tbody>
    <!-- Initial rows -->
    <tr>
      <td>1</td>
      <td>1</td>
    </tr>
    <tr>
      <td>2</td>
      <td>1</td>
    </tr>
  </tbody>
</table>

```

```

<script>
  const addRowBtn = document.getElementById('addRowBtn'); const
  tableBody = document.querySelector('#dataTable tbody');

```

```

  addRowBtn.addEventListener('click', () => { const
    rows = tableBody.children;
    const lastRow = rows[rows.length - 1];
    const previousRow = lastRow.previousElementSibling;

```

```

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

```

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    const newRowNumber =
      parseInt(lastRow.firstElementChild.inner
        Text) +

```

```

    const newRowSum =
      parseInt(lastRow.lastElementChild.inner
        Text) +

```

```
parseInt(previousRow.lastElementChild.innerText);
```

```
const newRowData1 = document.createElement('td');  
newRowData1 .innerText = newRowNumber;
```

```
newRow.appendChild(newRowData1);
```

```
const newRowData2 = document.createElement('td');
```

```
newRowData2.innerText = newRowSum;
```

```
newRow.appendChild(newRowData2);
```

```
tbody.appendChild(newRow);
```

```
});
```

```
</script>
```

```
</body>
```

```
</html>
```





Q5. <!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Calclator</title>

</head>

<body>

<input type="text" id="input1" placeholder="Enter number">

<input type="text" id="input2" placeholder="Enter number">

<button onclick="calculate('+')">+</button>

<button onclick="calculate('-')">-</button>

<button onclick="calculate('*')">*</button>

<button onclick="calculate('/')">/</button>

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

<script>

function calculate(operation) {

const input1 =

Number.parseInt(document.getElementById('input1').value);

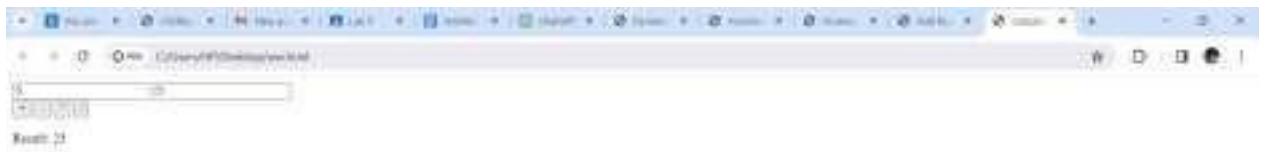
const input2 =

Number.parseInt(document.getElementById('input2').value);

```
let result;

switch (operation) {
  case '+':
    result = input1 + input2;
    break;
  case '-':
    result = input1 - input2;
    break;
  case '*':
    result = input1 * input2;
    break;
  case '/':
    result = input1 / input2;
    break;
  default:
    result = 'Invalid operation';
}

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



```
Q6. <!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;
    display: flex;
    justify-content: center;
    align-items: center; height:
    100vh; background-color:
    #f0f0f0;
  }

  #container {
    width: 400px;
    padding: 20px;
    background-color: #fff;
```

border-radius: 10px;

```
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    text-align: center;
}
```

```
h1 {
    color: #007bff;
    margin-bottom: 20px;
}
```

```
p{
    margin-bottom: 20px;
}
```

```
ul {
    text-align: left;
    margin-left: 40px;
    margin-bottom: 20px;
}
```

```
li {
    margin-bottom: 10px;
}
```

```
.button {
    display: inline-block;
    margin: 5px;
    padding: 10px 20px;
    background-color: #007bff;
    color: #fff;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    transition: background-color 0.3s ease;
}
```

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

```
</style>
```



```
</head>
<body>
<button onclick="makePage();" class="button">Click Here</button>

<script>
function makePage() {
  // Clear existing content document.body.innerHTML
  = "";

  // Create container div
  const container= document.createElement('div');
  container.id = 'container';

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

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

  // Create list
  const list = document.createElement('ul'); const
  items= ['This is First', 'This is Second'];
  items.forEach(text => {
    const listItem = document.createElement('li');
    listItem.textContent = text;
    list.appendChild(listItem);
  });

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

  // Append container to body
  document.body.appendChild(container);
}
```

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



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This paragraph is broken

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07. <!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;
}

#calculator {
  padding: 20px;
  background-color: #fff;
  border-radius: 10px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
  text-align: center;
}

label {
  display: block;
  margin-bottom: 10px;
}

input {
  width: 100%; padding:
  10px; margin-bottom:
  20px; border-radius:
  5px;
  border: 1px solid #ccc;
  box-sizing: border-box;
}

button {
  padding: 10px 20px;
  background-color: #007bff;
  color: #fff;
  border: none;
```

```
border-radius: 5px;
cursor: pointer;
transition: background-color 0.3s ease;
}
```

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

```
#tipResult {
  margin-top: 20px;
  font-size: 24px;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div id="calculator">
```

```
  <label for="billAmount">Bill Amount ($):</label>
```

```
  <input type="number" id="billAmount" placeholder="Enter bill amount">
```

```
  <label for="tipPercentage">Tip Percentage (%):</label> <input
type="number" id="tipPercentage" placeholder="Enter tip percentage">
```

```
  <label for="numPeople">Number of People:</label>
```

```
  <input type="number" id="numPeople" placeholder="Enter number of
people">
```

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

```
  <div id="tipResult"></div>
```

```
</div>
```

```
<script>
```

```
function calculateTip() {
```

```
  const billAmount =
```

```
  parseFloat(document.getElementById('billAmount').value); const
```

```
  tipPercentage =
```

```
  parseFloat(document.getElementById('tipPercentage').value);
```

```

    const numPeople =
parseFloat(document.getElementById('numPeople').value);

    if (isNaN(billAmount) || isNaN(tipPercentage) || isNaN(numPeople) ||
billAmount <= 0 || tipPercentage < 0 || numPeople <= 0) {
document.getElementById('tipResult').textContent = 'Please enter valid
inputs';

    return;
}

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

    const tipResult = 'Tip Amount: ${tipAmount.toFixed(2)}<br> Total
Amount (including tip): ${totalAmount.toFixed(2)}<br> Tip per person:
${tipPerPerson.toFixed(2)}<br>
Total per person: ${totalPerPerson.toFixed(2)}·';

document.getElementById('tipResult').innerHTML = tipResult;
}
</script>
</body>
</html>

```



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