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Q1. <!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
```

```
>
```

```
</body>
```

```
</html>
```

Hello

hil

Q2. <!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>

```

Q3. <!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>
```

Q4. <!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>

```
1
;
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.previous ElementSibling;

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

  const newRowNumber = parseInt(lastRow.firstElementChild.innerText) +

  const newRowSum = parseInt(lastRow.lastElementChild.innerText) +
  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);  
  
    tableBody.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>Calculator</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>
```

I am an
H1

Q7. <!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="num People">Number of People:</label>
```

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

```
<button onclick="calculate Tip()">Calculate  
Tip</button> <div id="tipResult"></div>
```

```
</div>
```

```
<script>
```

```
function calculate Tip()
```

```
{
```

```
    const billAmount =
```

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

```
    const tipPercentage =
```

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

```
    const numPeople:
```

```
    parseFloat(document.getElementById('num  
People').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)}
 Total
Amount (including tip): \${totalAmount.toFixed(2)}
 Tip per person:
\${tipPerPerson.toFixed(2)}

Total per **person**:

\${totalPerPerson.toFixed(2)}`;

document.getElementById('tipResult').innerHTML =
tipResult;

}

</script

>

</body>

</html>

Tip Amount: \$250.00
Total Amount (including tip: \$5250.00
Tip per person: \$25.00
Total per person:
\$525,00