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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');

change TextBtn.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;

  const newRowData2 = document.createElement('td');
  newRowData2.innerText = newRowSum;

  newRow.appendChild(newRowData1);

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



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

```
</script>
```

```
</body>
```

```
</html>
```

DD

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"> <br>
```

```
<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