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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');
```

DD

```
  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>

```

DD

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.previousElementSibling;

  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>

DD

```

<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
      'x'.
      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">

<**titletitle**

<**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)}<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>
```

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