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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 (new Text)
  {

  }
  helloHeading.textContent = newText;
  helloHeading.style.transform =
  'rotate(0deg)';
  // Trigger
  reflow
  void
  helloHeading.offsetWidth;
  helloHeading.style.transform = 'rotate(360deg)';

  })
;
</script>
>
</body>
</html>

```

Hello

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>

```

DD

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;
```

DD

```
</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>
```

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>
```

```
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) + 1; 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);

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>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)
```

```
        {
```

DD

```

}
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>
```

```
<script>
```

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

```
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('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>
```

Tip Amount: \$250.00 Total Amount
(including tip: \$5250.00 Tip per
person: \$25.00 Total per person:
\$525.00