

Name- Rajat Kumar Behera

Roll no.- 22IT3035

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);

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)}<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