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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) {

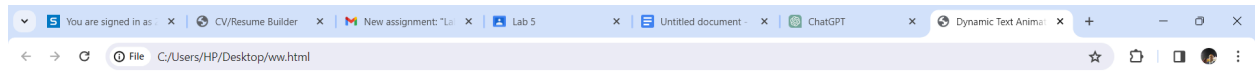
helloHeading.textContent = newText;

helloHeading.style.transform = 'rotate(0deg)';

// Trigger reflow

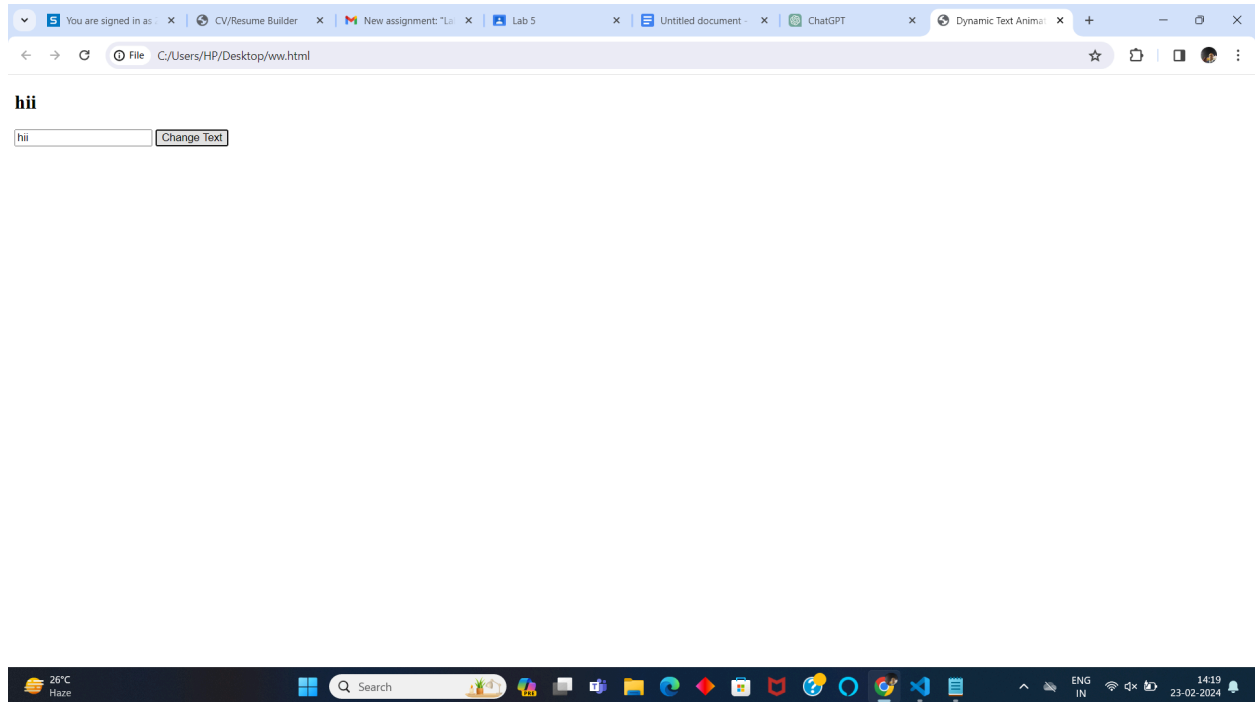
void helloHeading.offsetWidth;

```
        helloHeading.style.transform = 'rotate(360deg)';  
    }  
});  
</script>  
</body>  
</html>
```



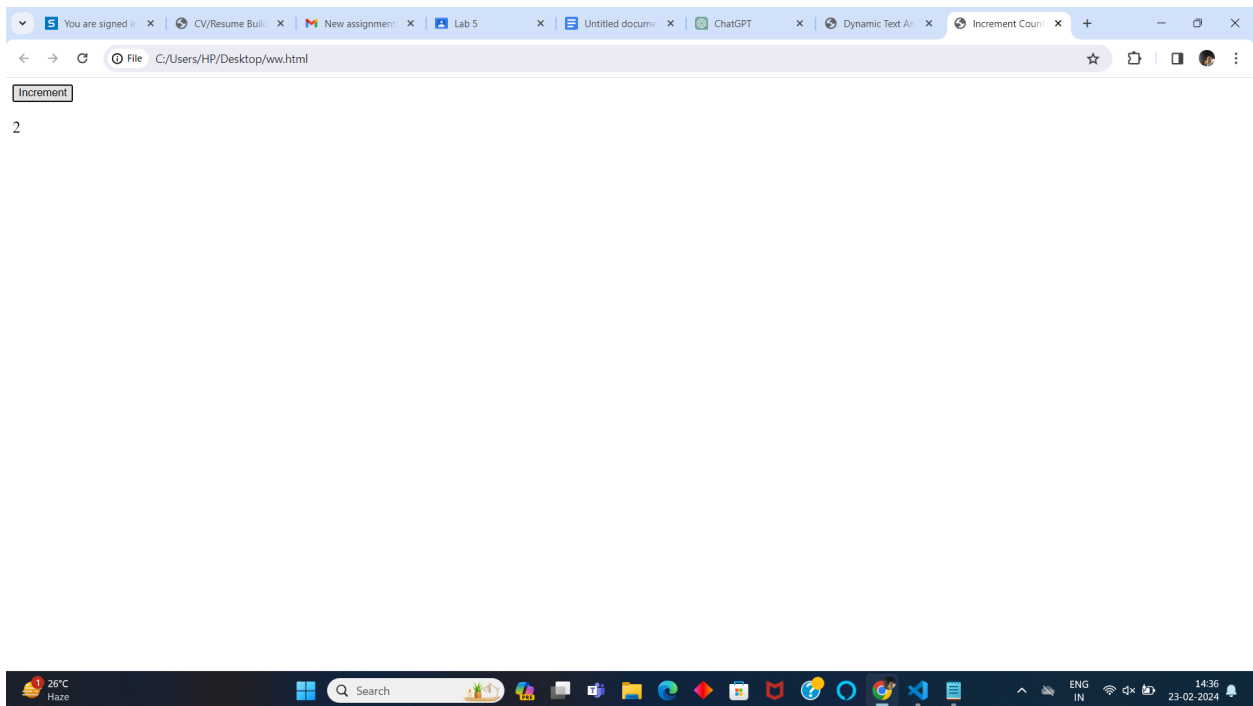
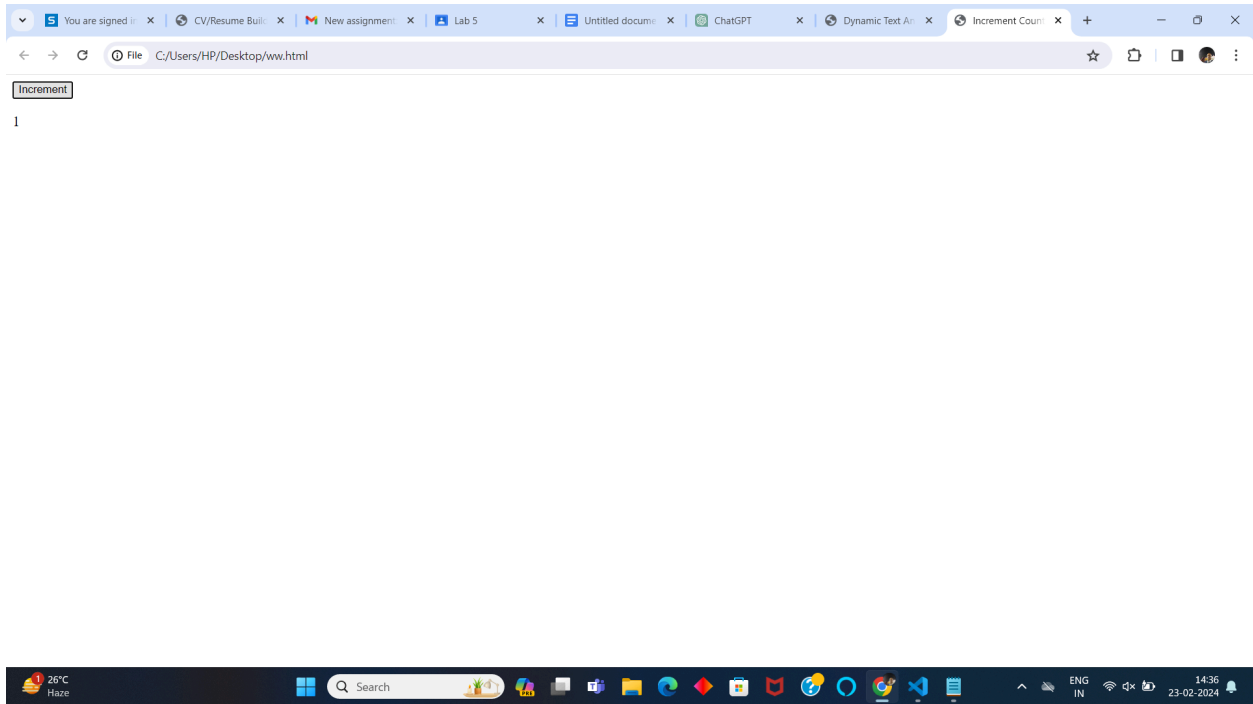
**Hello**





```
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>
```





Q3. <!DOCTYPE html>  
<html lang="en">  
<head>

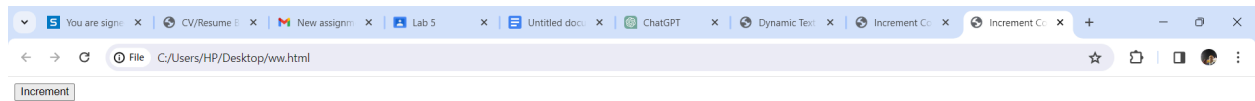
```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Increment Counter with List</title>
<style>
  #count {
    font-size: 16px; /* Initial font size */
    transition: font-size 0.2s ease-in-out;
  }
</style>
</head>
<body>
<button id="incrementBtn"
onclick="incrementCounter()">Increment</button>
<ul id="countList">
  <!-- Initial list item -->
  <li id="countItem">0</li>
</ul>

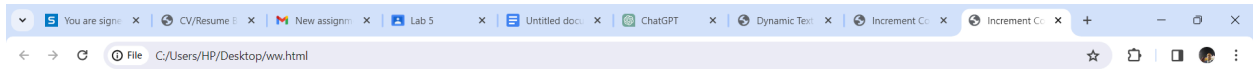
<script>
  let count = 0;
  const countList = document.getElementById('countList');

  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>
```





Increment

- 0
- 1



Increment

- 0
- 1
- 2



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;

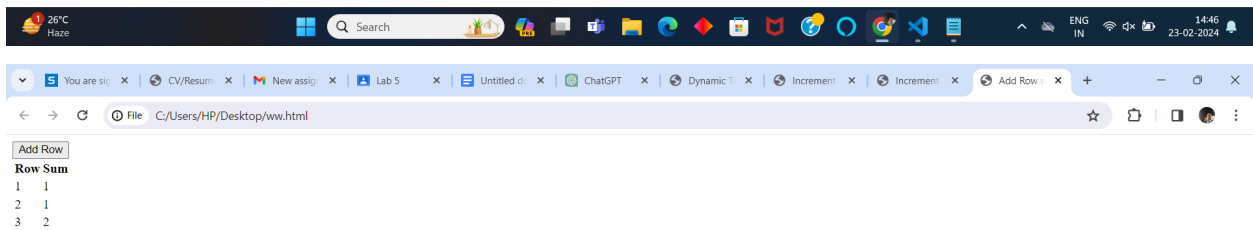
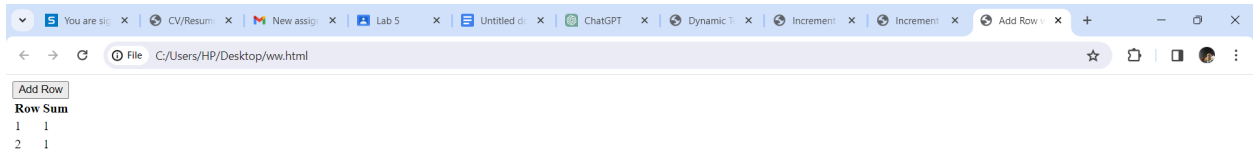
  const newRow = document.createElement('tr');
```

```
    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);

    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">
<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;

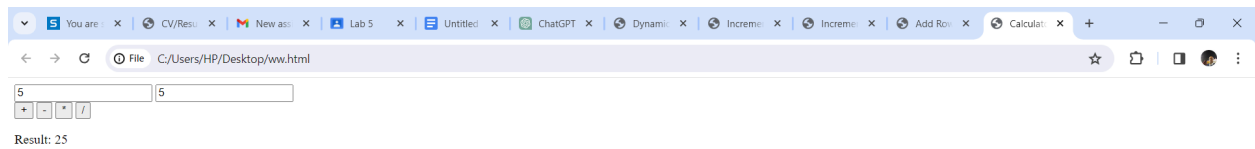
  switch (operation) {
    case '+':
      result = input1 + input2;
      break;
    case '-':
      result = input1 - input2;
      break;
    case '*':
      result = input1 * input2;
      break;
    case '/':
      result = input1 / input2;
      break;
    default:
```

```

        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);  
});
```

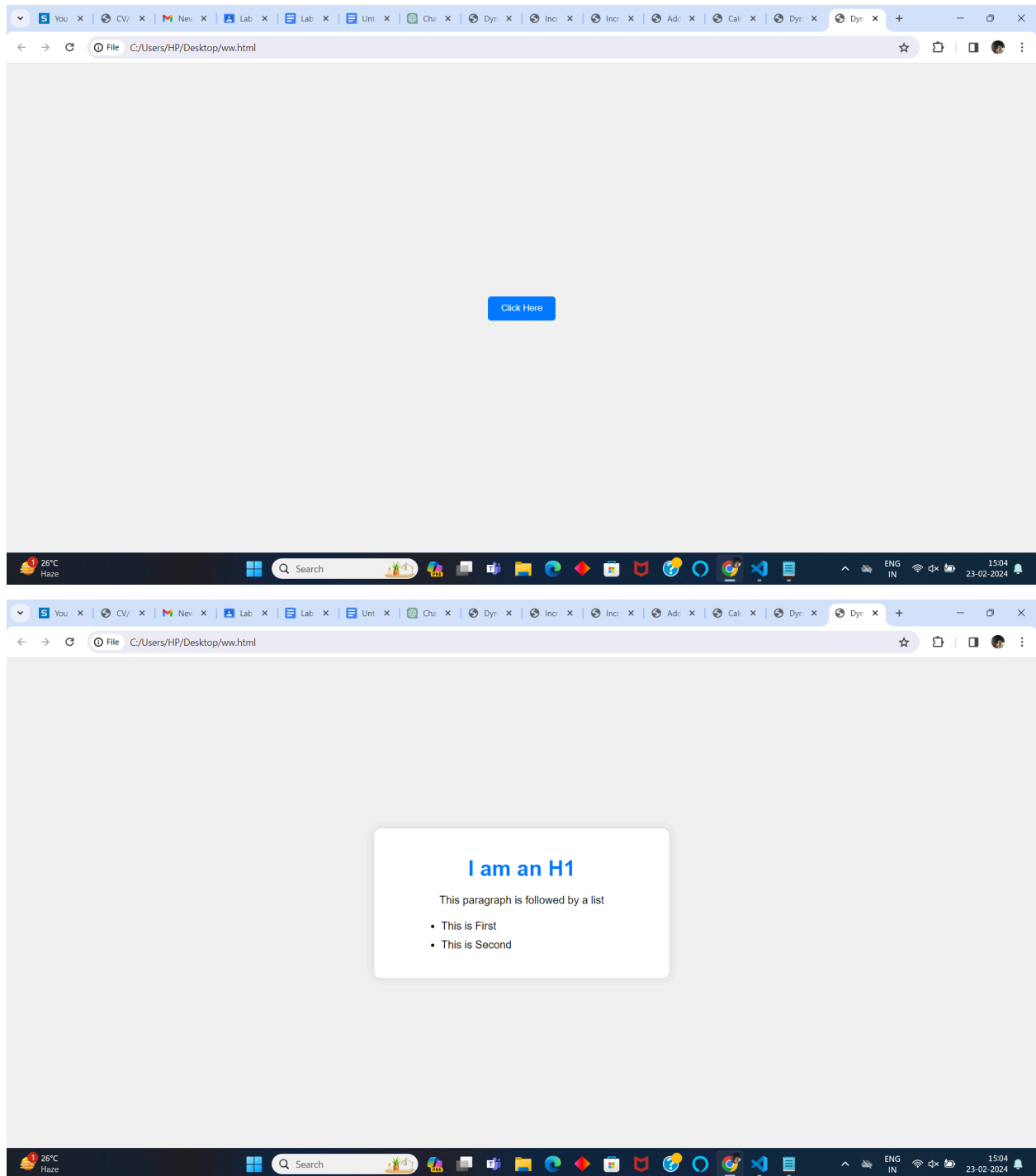
```
// Append elements to container
```

```
container.appendChild(title);  
container.appendChild(paragraph);  
container.appendChild(list);
```

```
// Append container to body
```

```
document.body.appendChild(container);  
}  
</script>  
</body>  
</html>
```





```
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="numPeople">Number of People:</label>

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

<button onclick="calculateTip()">Calculate Tip</button>

```
<div id="tipResult"></div>
</div>
```

```
<script>
function calculateTip() {
  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>
```

