

LAB ASSIGNMENT

– 5 Name – YASH PATEL

Branch – CSE

Roll No. – 22CS3068

T1->

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Dynamic Text Replacement</title>
</head>
<body>

<div id="container">
<h2><span id="dynamicText">Hello</span></h2> <input
type="text" id="textInput" placeholder="Type here">
<button onclick="replaceText()">Replace
Text</button>
</div>

<script>
function replaceText() {
const newText =
document.getElementById('textInput').value; const
dynamicText =
```

```

document.getElementById('dynamicText');
dynamicText.innerText = newText;
dynamicText.parentElement.classList.add('spin'); }
</script>

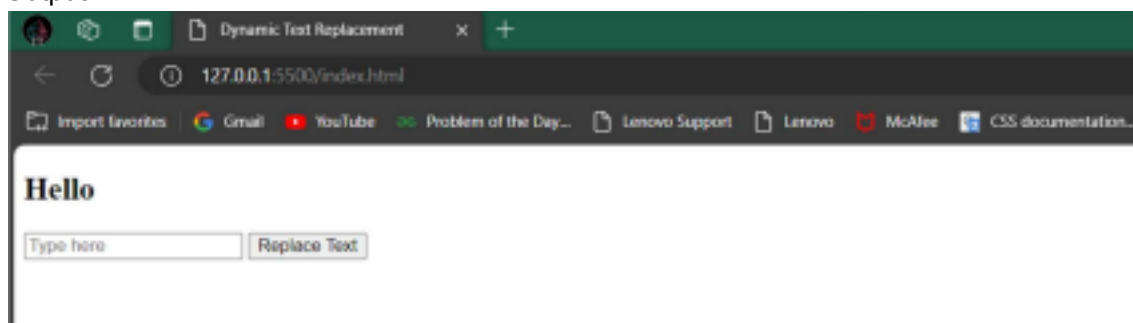
<style>
.spin {
  animation: spin 2s linear infinite;
  transform-origin: center;
}

@keyframes spin {
  from {
    transform: rotate(0deg);
  }
  to {
    transform: rotate(360deg);
  }
}
</style>

</body>
</html>

```

Output:



T2 ☹

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Counter</title>
<style>
#count {
font-size: 16px;
}
</style>
</head>
<body>
<p id="count">0</p>
<button onclick="incrementCount()">Increment</button>

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

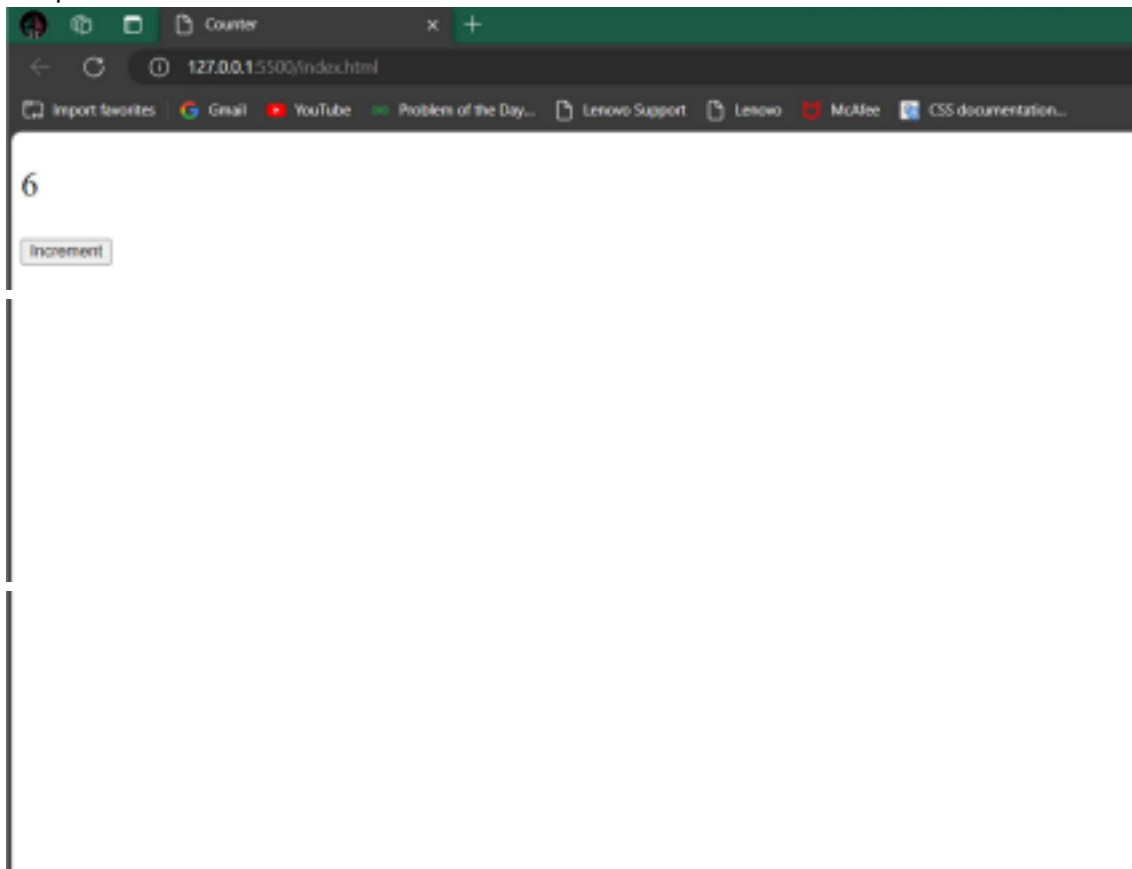
function incrementCount() {
count++;
```

```
countElement.innerText = count;  
updateFontSize();  
}
```

```
function updateFontSize() {  
  const fontSize = 16 + count * 2;  
  countElement.style.fontSize = `${fontSize}px`;  
</script>
```

```
</body>  
</html>
```

Output:



T3 €

Code:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
<meta charset="UTF-8">
```

```

<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Counter with List</title>
<style>
#countList {
list-style-type: none;
padding: 0;
}
</style>
</head>
<body>

<ul id="countList"></ul>
    <button onclick="incrementCount()">Increment</button>

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

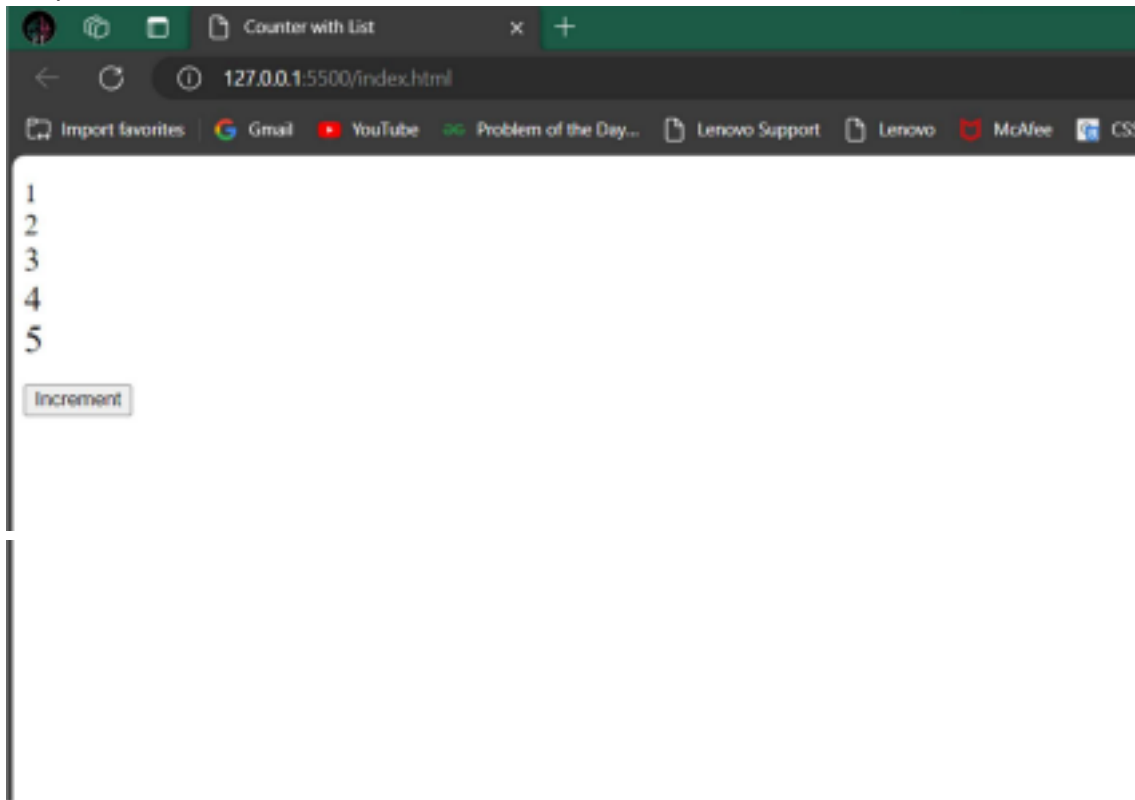
function incrementCount() {
count++;
const newItem = document.createElement('li');
newItem.textContent = count;
updateFontSize(newItem);
countList.appendChild(newItem);
}

function updateFontSize(item) {
const fontSize = 16 + count * 2; // Increase font size by 2px for
each increment
item.style.fontSize = `${fontSize}px`; }
</script>

</body>
</html>

```

Output:



T4

Code:

```
<!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</title>
</head>
<body>

<table id="dataTable" border="1">
<tr>
<th>Number</th>
</tr>
<tr>
<td>1</td>
</tr>
```

```
<tr>
<td>1</td>
</tr>
</table>
```

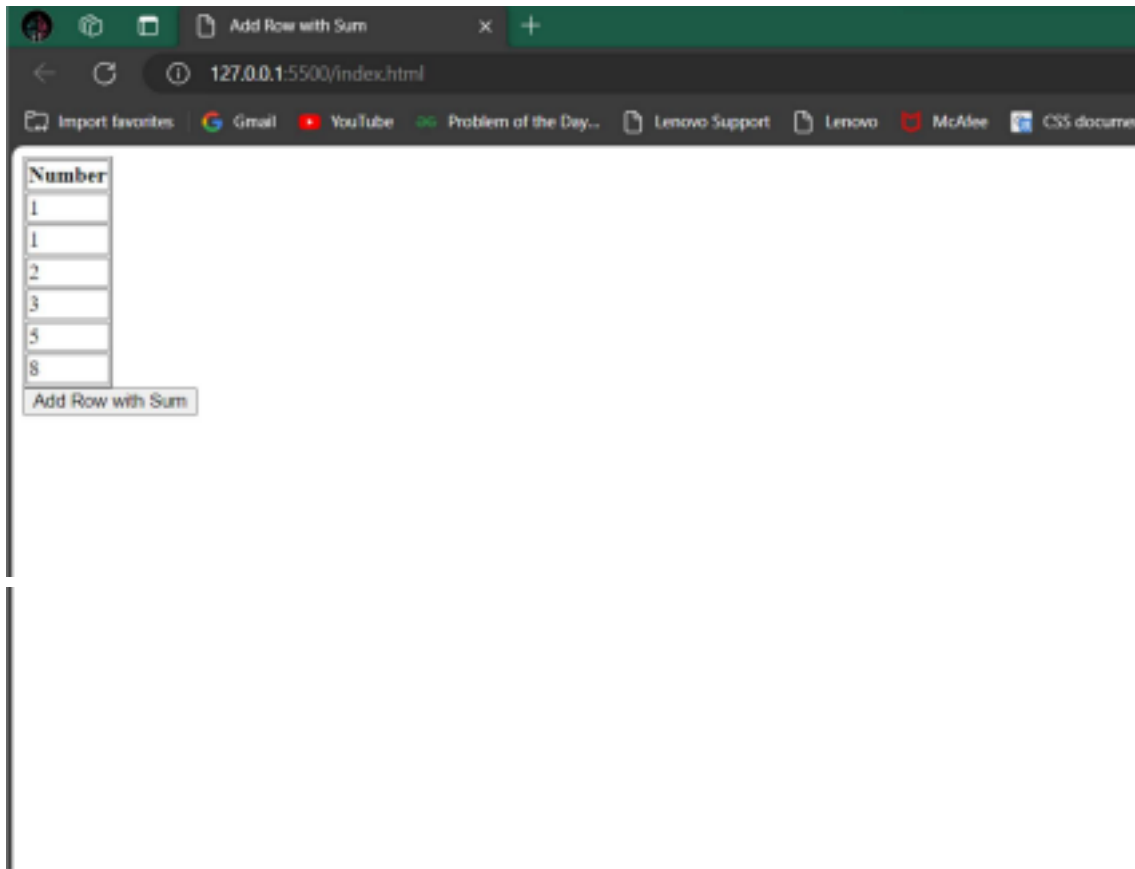
```
<button onclick="addRowWithSum()">Add Row with
Sum</button>
```

```
<script>
function addRowWithSum() {
const table =
document.getElementById('dataTable');
const rows = table.getElementsByTagName('tr');
const lastRow = rows[rows.length - 1]; const prevRow =
lastRow.previousElementSibling;
const sum =
parseInt(lastRow.lastElementChild.innerText) +
parseInt(prevRow.lastElementChild.innerText);
const newRow = document.createElement('tr'); const
newData = document.createElement('td'); newData.innerText
= sum;

newRow.appendChild(newData);
table.appendChild(newRow);
}
</script>
```

```
</body>
</html>
```

Output:



T5 €

Code:

```
<!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">
<input type="text" id="input2">
<br>
<button onclick="calculate('+')">+</button>
<button
onclick="calculate('-')">-</button>
<button
onclick="calculate('*')">*</button>
<button
onclick="calculate('/')">/</button>
<div
id="result"></div>
```



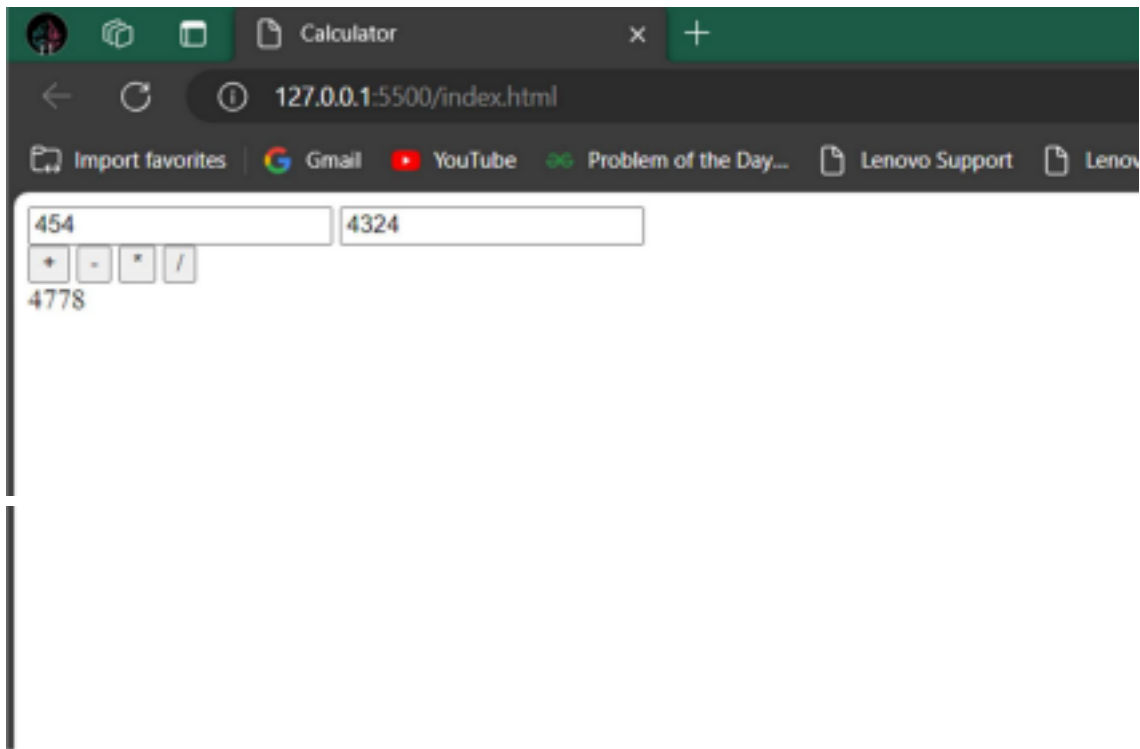
```
<script>
function calculate(operator) {
const input1 =
Number.parseInt(document.getElementById('input1').value);
const input2 =
Number.parseInt(document.getElementById('input2').value);
let result;

switch(operator) {
case '+':
result = input1 + input2;
break;
case '-':
result = input1 - input2;
break;
case '*':
result = input1 * input2;
break;
case '/':
if (input2 !== 0) {
result = input1 / input2;
} else {
result = 'Cannot divide by zero';
}
break;
default:
result = 'Invalid operator';
}

document.getElementById('result').innerText = result;
}
</script>

</body>
</html>
```

Output:



T6

Code:

```
<html>
<body>
<button onclick="makePage();">Click Here</button> </body>
<script>
function makePage(){
let x = document.createElement("h1"); x.textContent =
"I am H1";

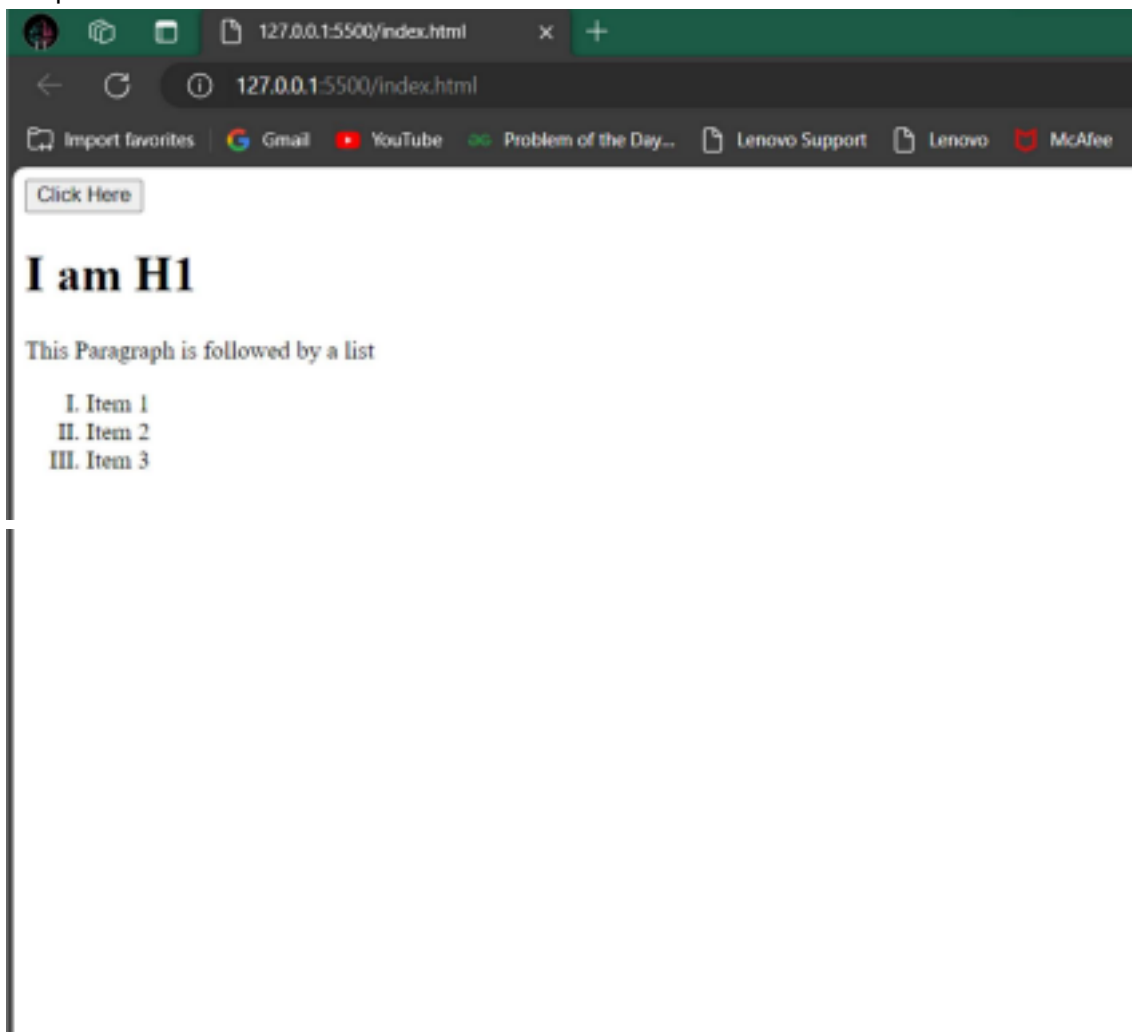
let para = document.createElement("p"); para.textContent = "This
Paragraph is followed by a list";

let list = document.createElement("ol"); list.type = "I"
for (let i = 1; i <= 3; i++) {
let listItem =
document.createElement("li");
listItem.textContent = `Item ${i}`;
list.appendChild(listItem);
```

```
}
```

```
document.body.appendChild(x);  
document.body.appendChild(para);  
document.body.appendChild(list);  
}  
</script>  
</html>
```

Output:



T7 €

```
<!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>
</head>
<body>

<div>
<label for="amount">Amount:</label>
<input type="number" id="amount" min="0"
step="0.01">
</div>
<div>
<label for="tipPercentage">Tip Percentage:</label> <input
type="number" id="tipPercentage" min="0" step="1">
<span>%</span>
</div>
<div>
<label for="numPeople">Number of People:</label> <input
type="number" id="numPeople" min="1" step="1">
</div>
<button onclick="calculateTip()">Calculate
Tip</button>
<div id="result"></div>

<script>
function calculateTip() {
const amount =
parseFloat(document.getElementById('amount').value); const
tipPercentage =
parseFloat(document.getElementById('tipPercentage').value);
const numPeople =
    parseInt(document.getElementById('numPeople').value);

if (isNaN(amount) || isNaN(tipPercentage) || isNaN(numPeople)
|| amount <= 0 || tipPercentage < 0 || numPeople < 1) {
document.getElementById('result').innerText = 'Please enter
valid values';
return;
}

```

```
const tipAmount = (amount * tipPercentage) / 100; const  
totalAmount = amount + tipAmount; const amountPerPerson =  
totalAmount / numPeople;
```

```
document.getElementById('result').innerText = `Tip:  
${tipAmount.toFixed(2)} | Total:  
${totalAmount.toFixed(2)} | Per Person:  
${amountPerPerson.toFixed(2)}`;  
}  
</script>
```

```
</body>  
</html>
```

Output:

