

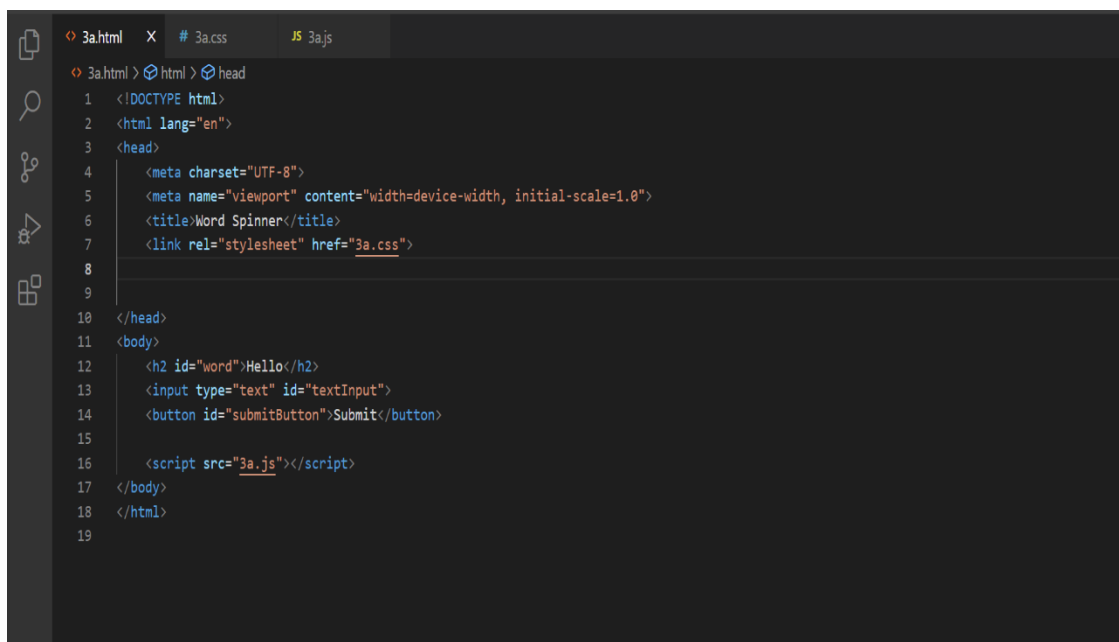
# Web Technology

## Lab5

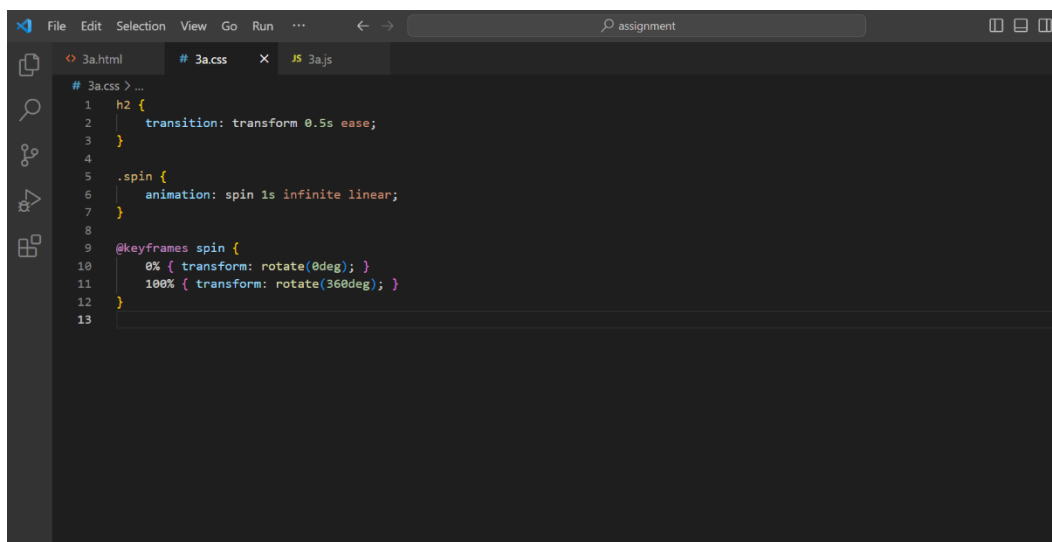
Name-Anushka Nema

Roll No-22IT3008

Q1



```
3a.html X # 3a.css JS 3a.js
3a.html > html > head
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Word Spinner</title>
7   <link rel="stylesheet" href="3a.css">
8
9
10 </head>
11 <body>
12   <h2 id="word">Hello</h2>
13   <input type="text" id="textInput">
14   <button id="submitButton">Submit</button>
15
16   <script src="3a.js"></script>
17 </body>
18 </html>
19
```



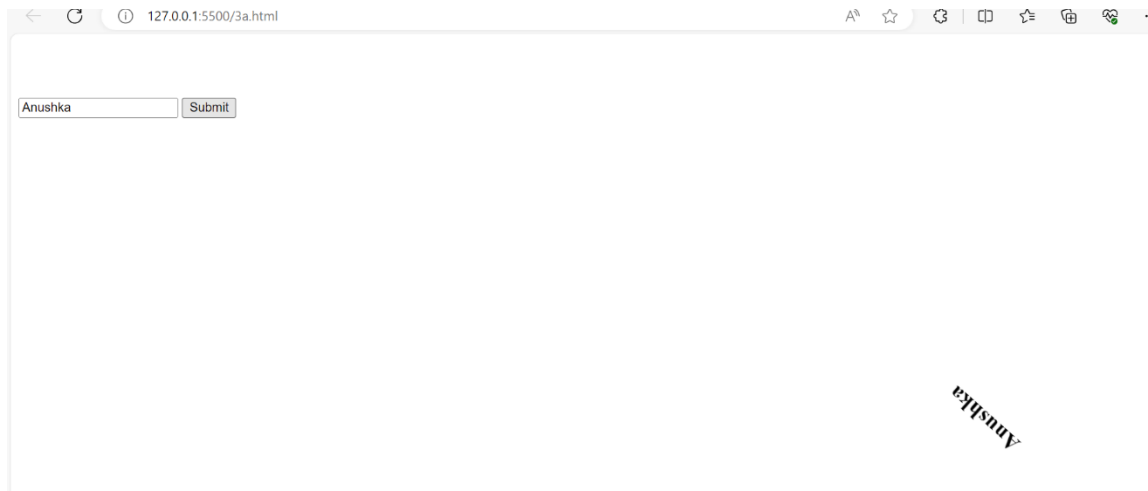
```
File Edit Selection View Go Run ... ← → assignment
3a.html # 3a.css X JS 3a.js
# 3a.css > ...
1 h2 {
2   transition: transform 0.5s ease;
3 }
4
5 .spin {
6   animation: spin 1s infinite linear;
7 }
8
9 @keyframes spin {
10   0% { transform: rotate(0deg); }
11   100% { transform: rotate(360deg); }
12 }
13
```

```
JS 3ajs > ...
1 document.getElementById("submitButton").addEventListener("click", function() {
2     var input = document.getElementById("textInput").value;
3     var h2 = document.getElementById("word");
4     h2.innerText = input;
5
6
7     setTimeout(function() {
8         h2.classList.add("spin");
9     }, 50);
10
11     setTimeout(function() {
12         h2.classList.remove("spin");
13     }, 1000);
14 });
15
```

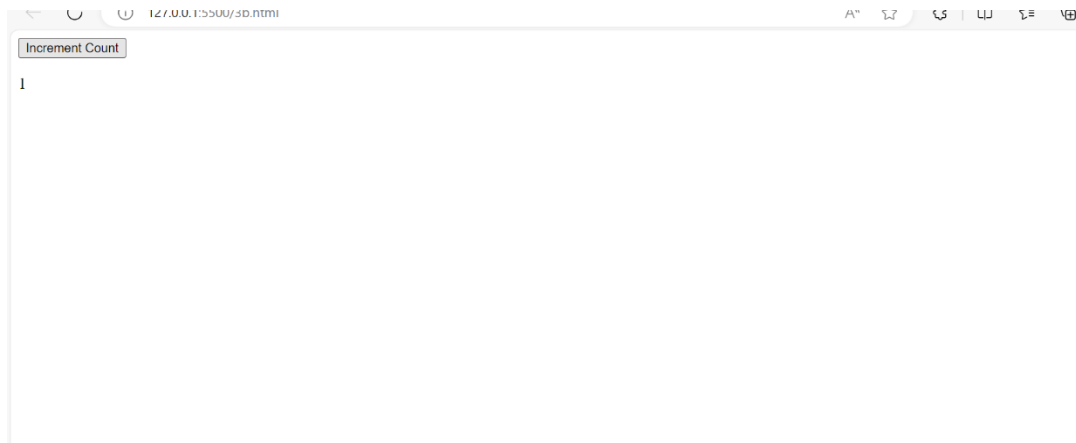
## Hello

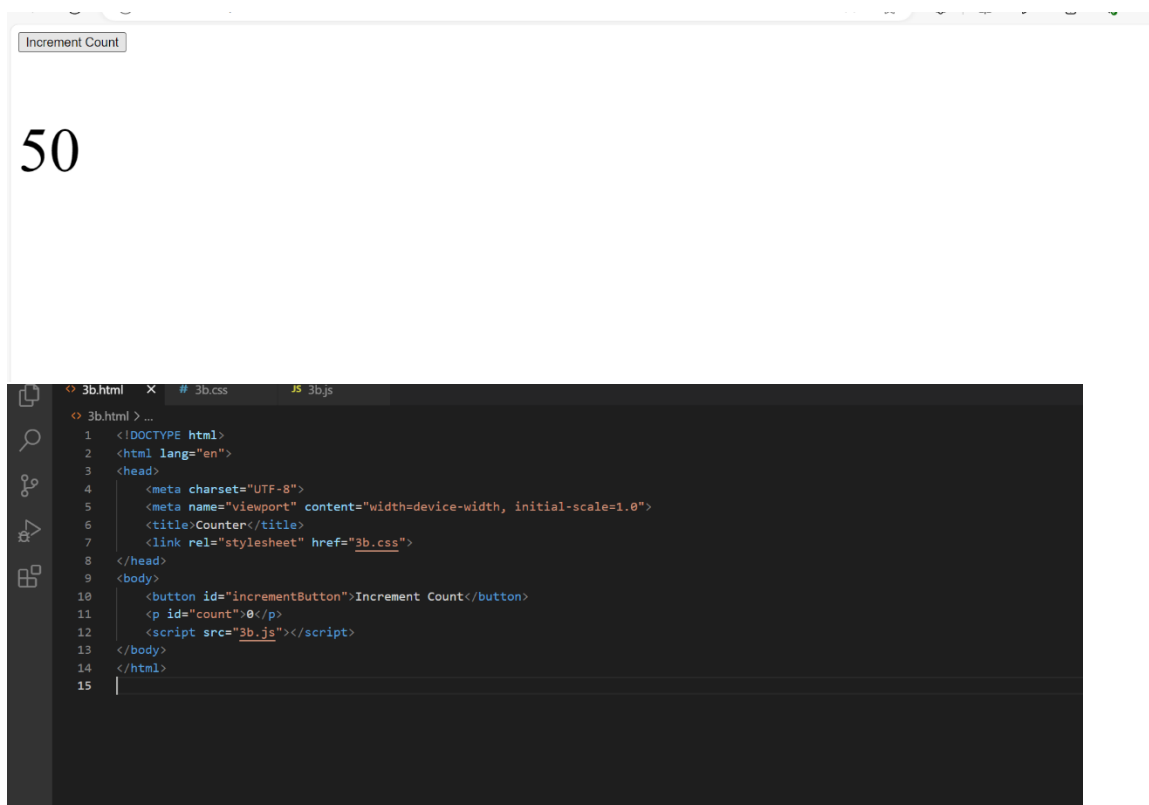
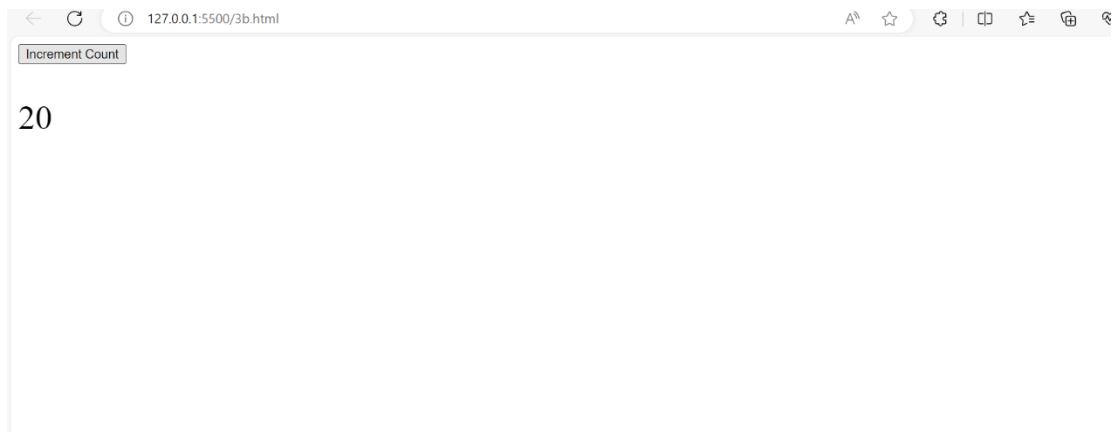
 

## Anushka



Q2.





The image shows two panels of a VS Code editor. The top panel displays the CSS file `3b.css` with the following content:

```
# 3b.css > ...
1  #count {
2      font-size: 16px; /* Initial font size */
3      transition: font-size 0.3s ease; /* Smooth transition for font size change */
4  }
5  |
```

The bottom panel displays the JavaScript file `3b.js` with the following content:

```
JS 3b.js > ...
1  document.getElementById("incrementButton").addEventListener("click", function() {
2      var countParagraph = document.getElementById("count");
3      var currentCount = parseInt(countParagraph.innerText);
4      var newCount = currentCount + 1;
5      countParagraph.innerText = newCount;
6
7      // Update font size based on count
8      countParagraph.style.fontSize = (16 + newCount) + "px";
9  });
10
```

Q3

The image shows a VS Code editor with the Explorer sidebar on the left and the main editor area on the right. The Explorer sidebar shows a project named "ASSIGNMENT" with the following files:

- # 3a.css
- 3a.html
- JS 3a.js
- # 3b.css
- 3b.html
- JS 3b.js
- # 3c.css
- 3c.html
- JS 3c.js
- # a1.css
- a1.html
- JS a1.js
- a2.html
- a3.html
- a4.html
- a5.html
- a6.html
- chrome.jpg
- download.jpg
- firefox.png
- opera.png

The main editor area shows the HTML file `3c.html` with the following content:

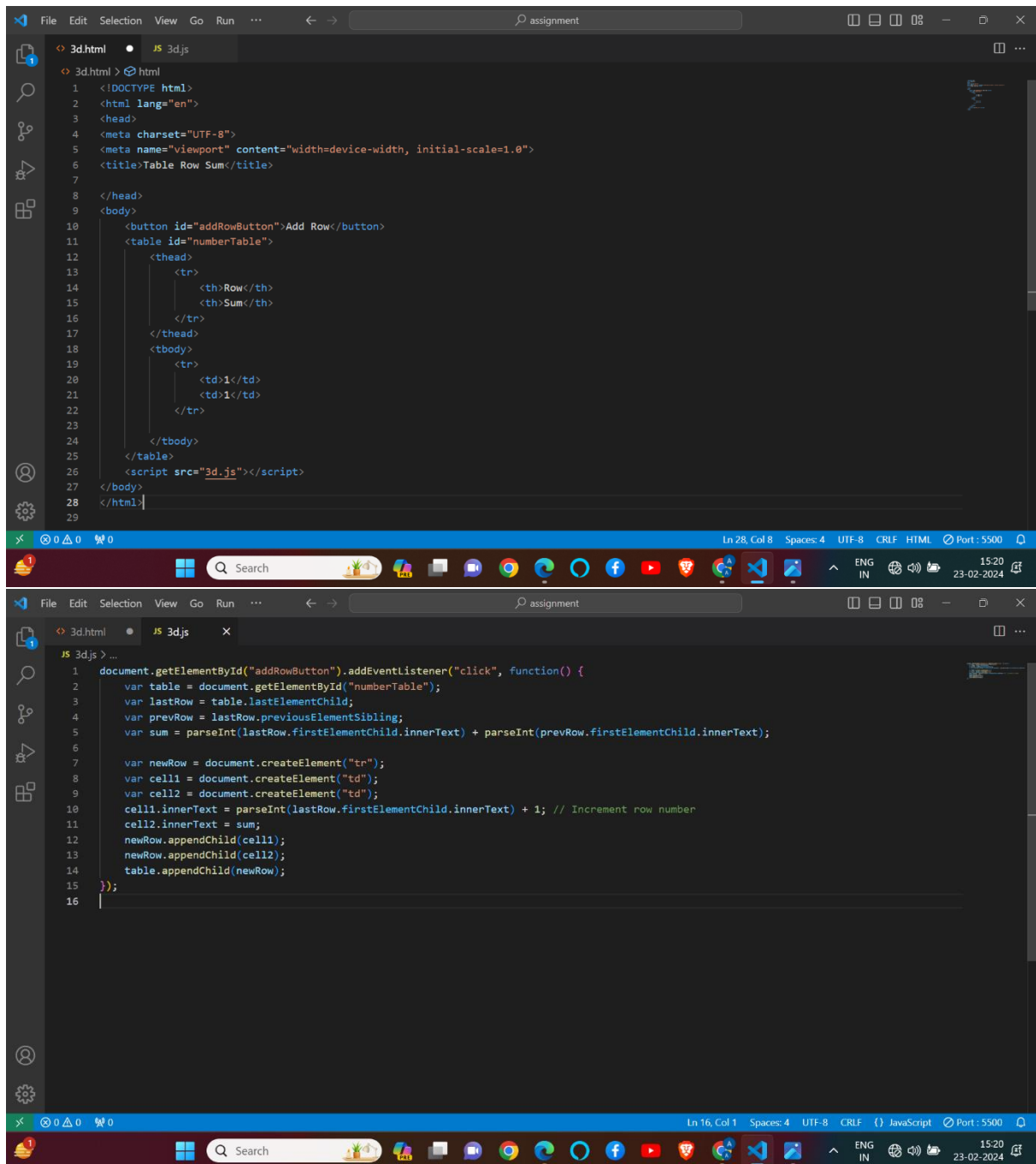
```
<? 3c.html >
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Number List</title>
7      <link rel="stylesheet" href="styles.css">
8  </head>
9  <body>
10     <button id="incrementButton">Increment Count</button>
11     <ul id="numberList"></ul>
12     <script src="3c.js"></script>
13 </body>
14 </html>
15
```

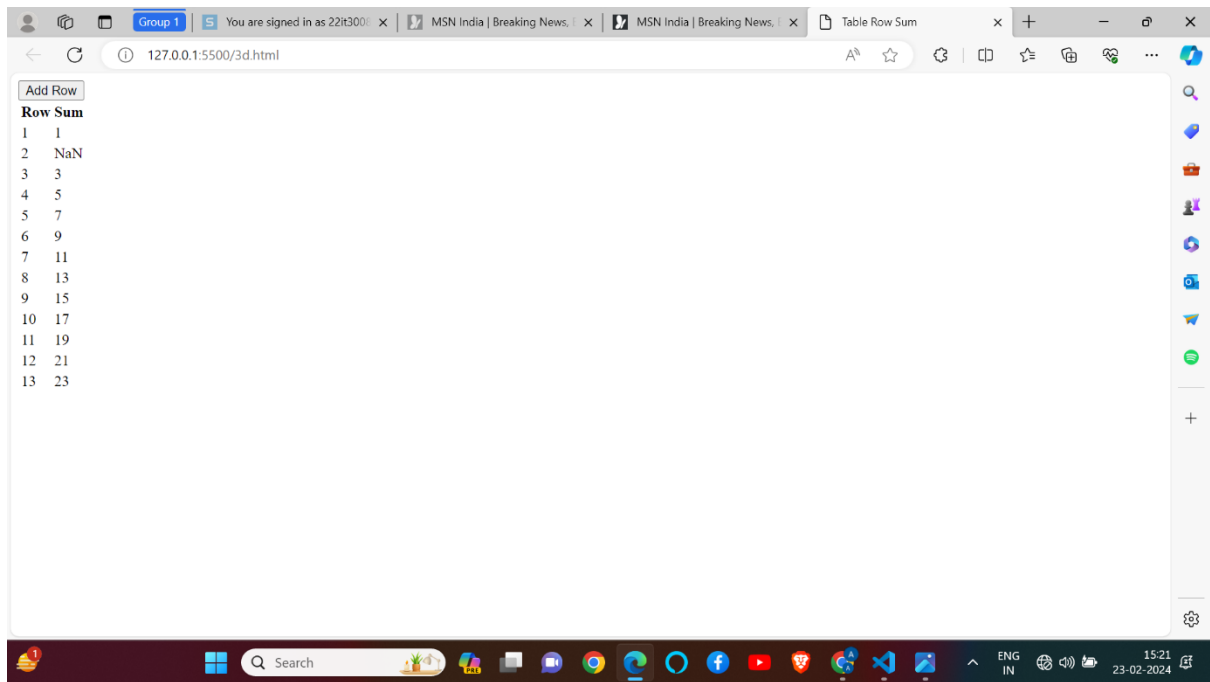
The image shows a development environment with VS Code and a web browser. The VS Code editor displays a JavaScript file named `3c.js` with the following code:

```
1 document.getElementById("incrementButton").addEventListener("click", function() {  
2     var numberList = document.getElementById("numberList");  
3     var newNumber = parseInt(numberList.children.length) + 1;  
4     var listItem = document.createElement("li");  
5     listItem.textContent = newNumber;  
6     numberList.appendChild(listItem);  
7 });  
8
```

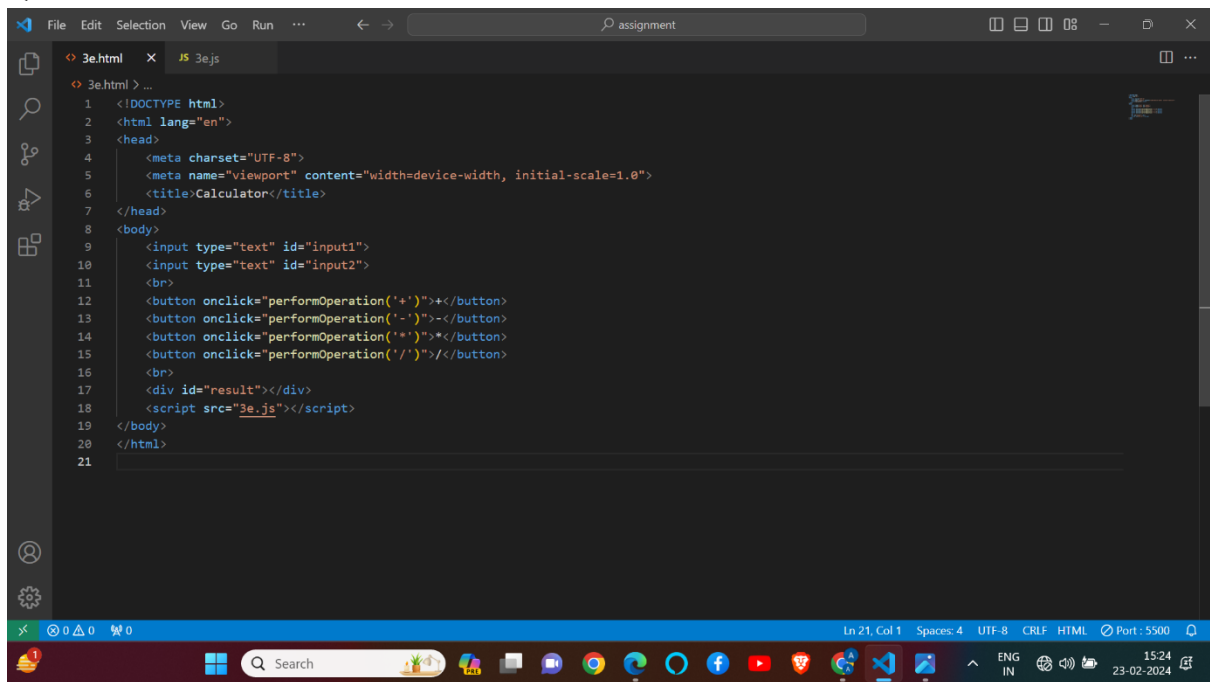
The web browser, running at `127.0.0.1:5500/3c.html`, shows the application's output. It features a button labeled "Increment Count" and a list of numbers. In the first screenshot, the list contains the numbers 1, 2, and 3. In the second screenshot, the list has been updated to contain the numbers 1 through 8, indicating that the increment button was clicked multiple times.

Q4





Q5



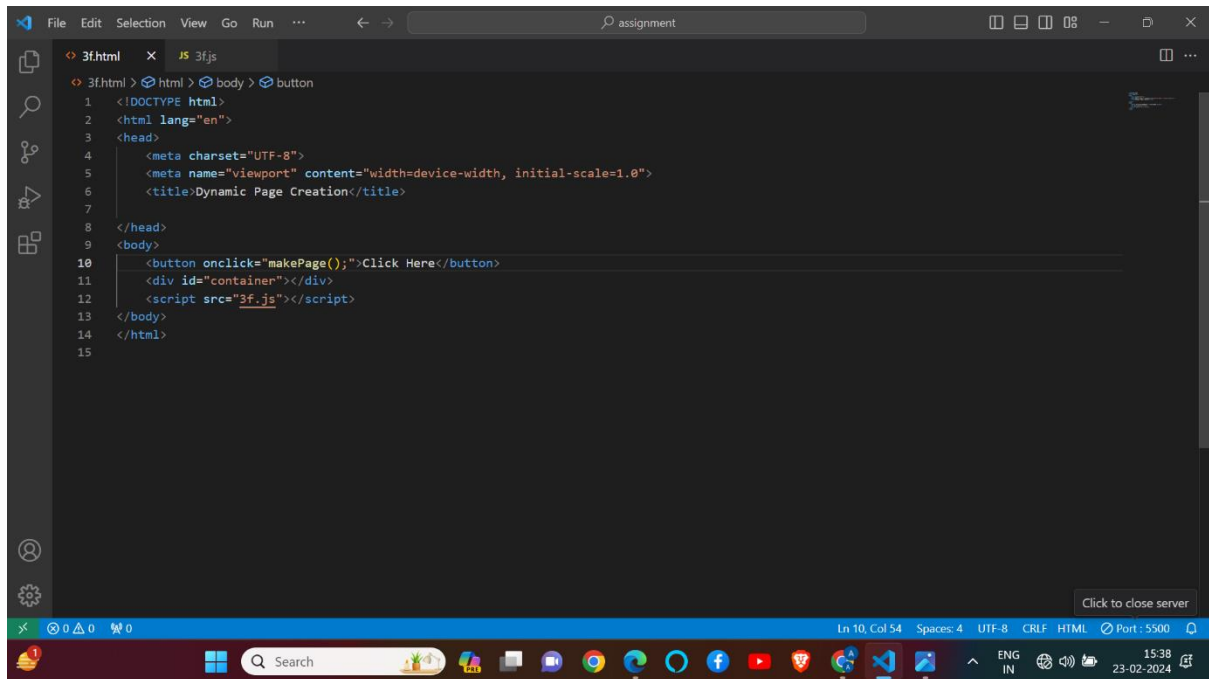


VS Code editor showing a JavaScript file named `3e.js` with the following code:

```
1 function performOperation(operator) {
2   var input1 = Number.parseInt(document.getElementById('input1').value);
3   var input2 = Number.parseInt(document.getElementById('input2').value);
4   var result;
5
6   switch(operator) {
7     case '+':
8       result = input1 + input2;
9       break;
10    case '-':
11      result = input1 - input2;
12      break;
13    case '*':
14      result = input1 * input2;
15      break;
16    case '/':
17      if (input2 !== 0) {
18        result = input1 / input2;
19      } else {
20        result = "Cannot divide by zero";
21      }
22      break;
23    default:
24      result = "Invalid operator";
25  }
26
27  document.getElementById('result').innerText = "Result: " + result;
28
29 }
```

The browser window (Chrome) shows the URL `127.0.0.1:5500/3e.html`. The page displays two input fields with values `8` and `20`, and a button with a plus sign. Below the inputs, the text `Result: 28` is displayed.

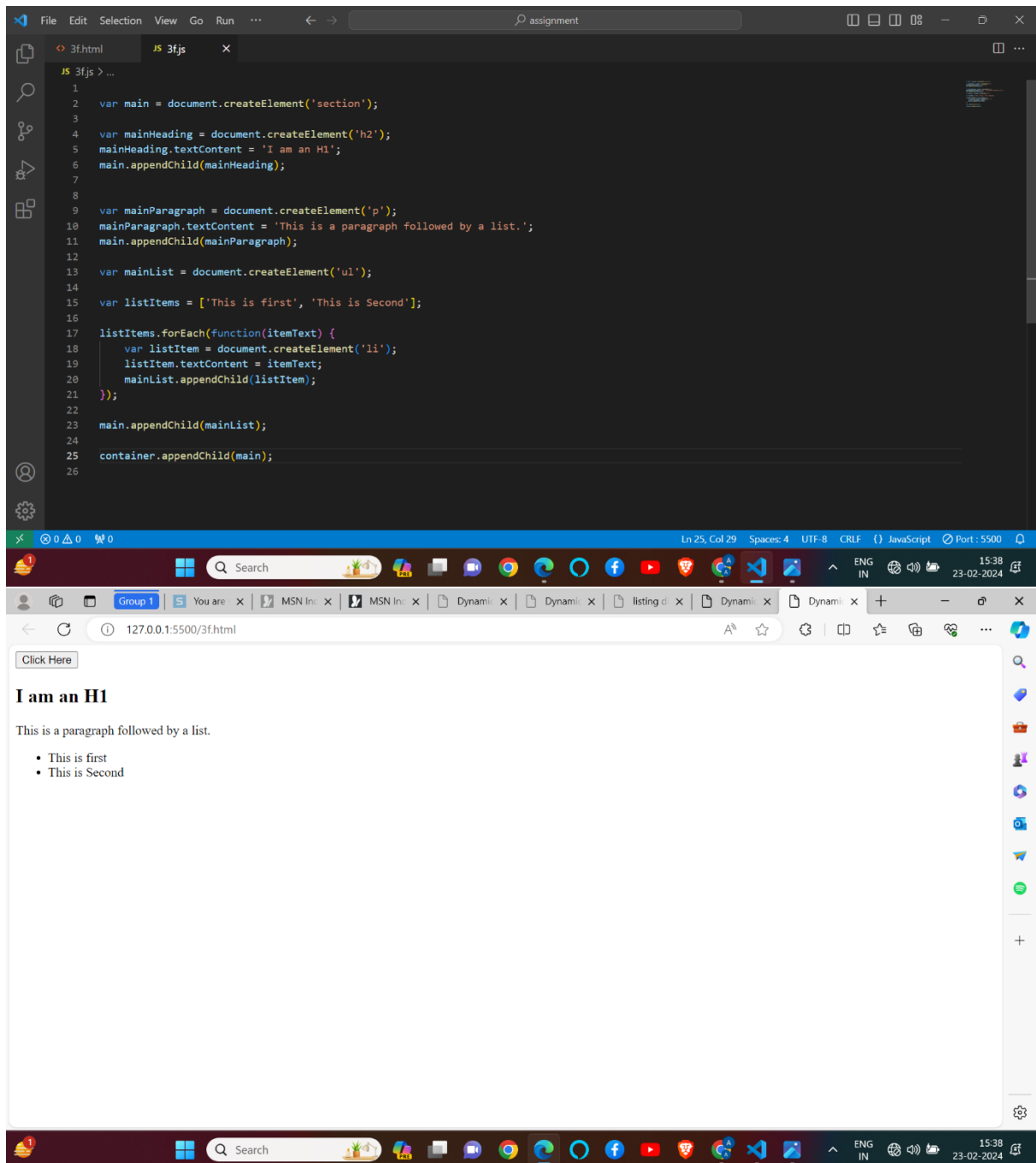
Q6



```
3f.html x JS 3f.js
3f.html > html > body > button
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Dynamic Page Creation</title>
7 </head>
8 <body>
9   <button onclick="makePage();">Click Here</button>
10  <div id="container"></div>
11  <script src="3f.js"></script>
12 </body>
13 </html>
14
15
```

Click to close server

Ln 10, Col 54 Spaces: 4 UTF-8 CRLF HTML Port: 5500



Q7

The image shows two screenshots of a Visual Studio Code editor. The top screenshot displays the `3g.html` file, which contains the HTML structure for a tip calculator. The bottom screenshot displays the `3g.css` file, which contains the CSS styles for the same application.

**HTML Code (3g.html):**

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Tip Calculator</title>
7   <link rel="stylesheet" href="3g.css">
8 </head>
9 <body>
10   <div class="container">
11     <h1>Tip Calculator</h1>
12     <label for="tipAmount">Amount of Tip: <span id="tipValue">10</span>%</label>
13     <input type="range" id="tipAmount" min="0" max="100" value="10" step="1">
14     <label for="numberOfPeople">Number of People: <span id="peopleValue">1</span></label>
15     <input type="range" id="numberOfPeople" min="1" max="10" value="1" step="1">
16     <label for="totalBillAmount">Total Bill Amount (in ₹):</label>
17     <input type="number" id="totalBillAmount" min="0" step="0.01">
18     <button onclick="calculateTip()">Calculate Tip</button>
19     <div id="tipResult"></div>
20   </div>
21   <script src="3g.js"></script>
22 </body>
23 </html>
24
```

**CSS Code (3g.css):**

```
1 .container {
2   max-width: 400px;
3   margin: 0 auto;
4   padding: 20px;
5   border: 1px solid #ccc;
6   border-radius: 5px;
7 }
8
9 .input-group {
10   margin-bottom: 10px;
11 }
12
13 label {
14   display: inline-block;
15   width: 150px;
16   font-weight: bold;
17 }
18
19 input[type="number"] {
20   width: 200px;
21   padding: 5px;
22   border-radius: 3px;
23   border: 1px solid #ccc;
24 }
25
26 button {
27   display: block;
28   width: 100%;
29   padding: 10px;
30 }
```

File Edit Selection View Go Run ... assignment

3g.html # 3g.css JS 3g.js x

```
JS 3g.js > ...
1 function calculateTip() {
2   var tipAmount = parseFloat(document.getElementById('tipAmount').value);
3   var numberOfPeople = parseInt(document.getElementById('numberOfPeople').value);
4   var totalBillAmount = parseFloat(document.getElementById('totalBillAmount').value);
5
6   var tipPercentage = tipAmount / 100;
7   var totalTip = tipPercentage * totalBillAmount;
8   var tipPerPerson = totalTip / numberOfPeople;
9
10  document.getElementById('tipResult').textContent = "Tip per person: ₹" + tipPerPerson.toFixed(2);
11 }
12
13 document.getElementById('tipAmount').addEventListener('input', function() {
14   document.getElementById('tipValue').textContent = this.value;
15 });
16
17 document.getElementById('numberOfPeople').addEventListener('input', function() {
18   document.getElementById('peopleValue').textContent = this.value;
19 });
20
```

Ln 20, Col 1 Spaces: 4 UTF-8 CRLF {} JavaScript Port: 5500

Group 1 You are signed in as: MSN India | Breaking: MSN India | Breaking: Tip Calculator Tip Calculator

127.0.0.1:5500/3g.html

## Tip Calculator

Amount of Tip: 5%  
Number of People: 4  
Total Bill Amount (in ₹): 9800

Calculate Tip

Tip per person: ₹122.50