

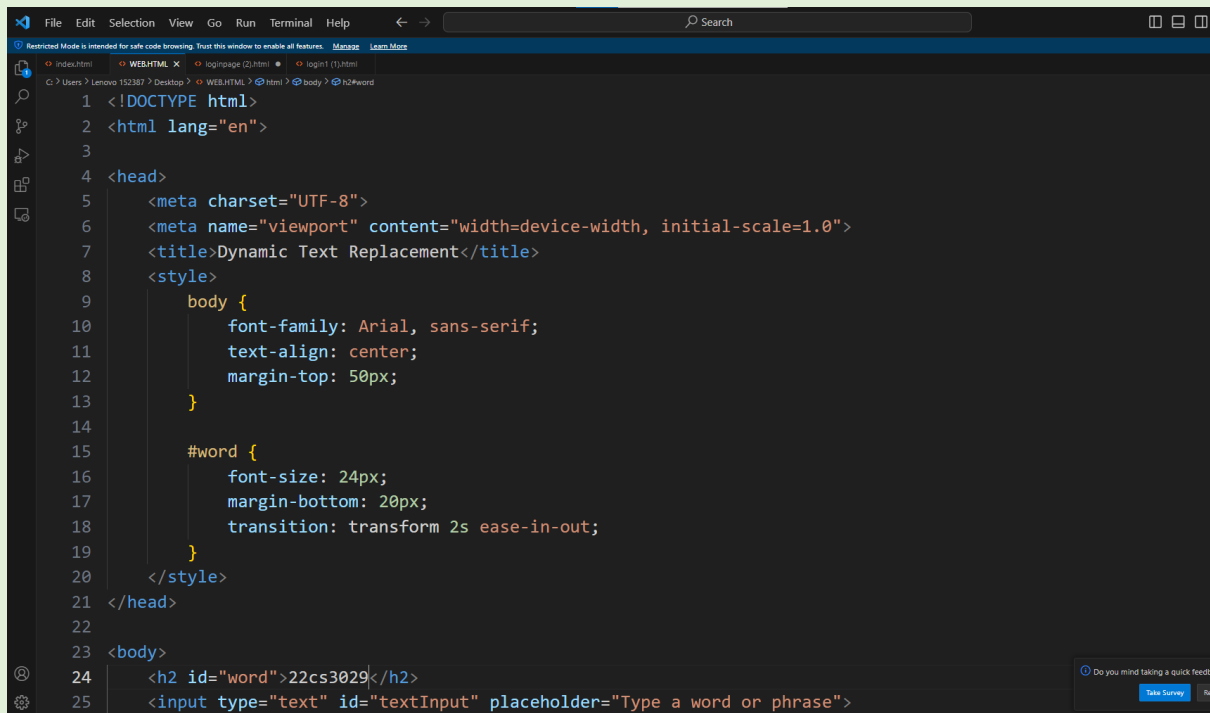
Lab-5

Name-Ishika Pandey

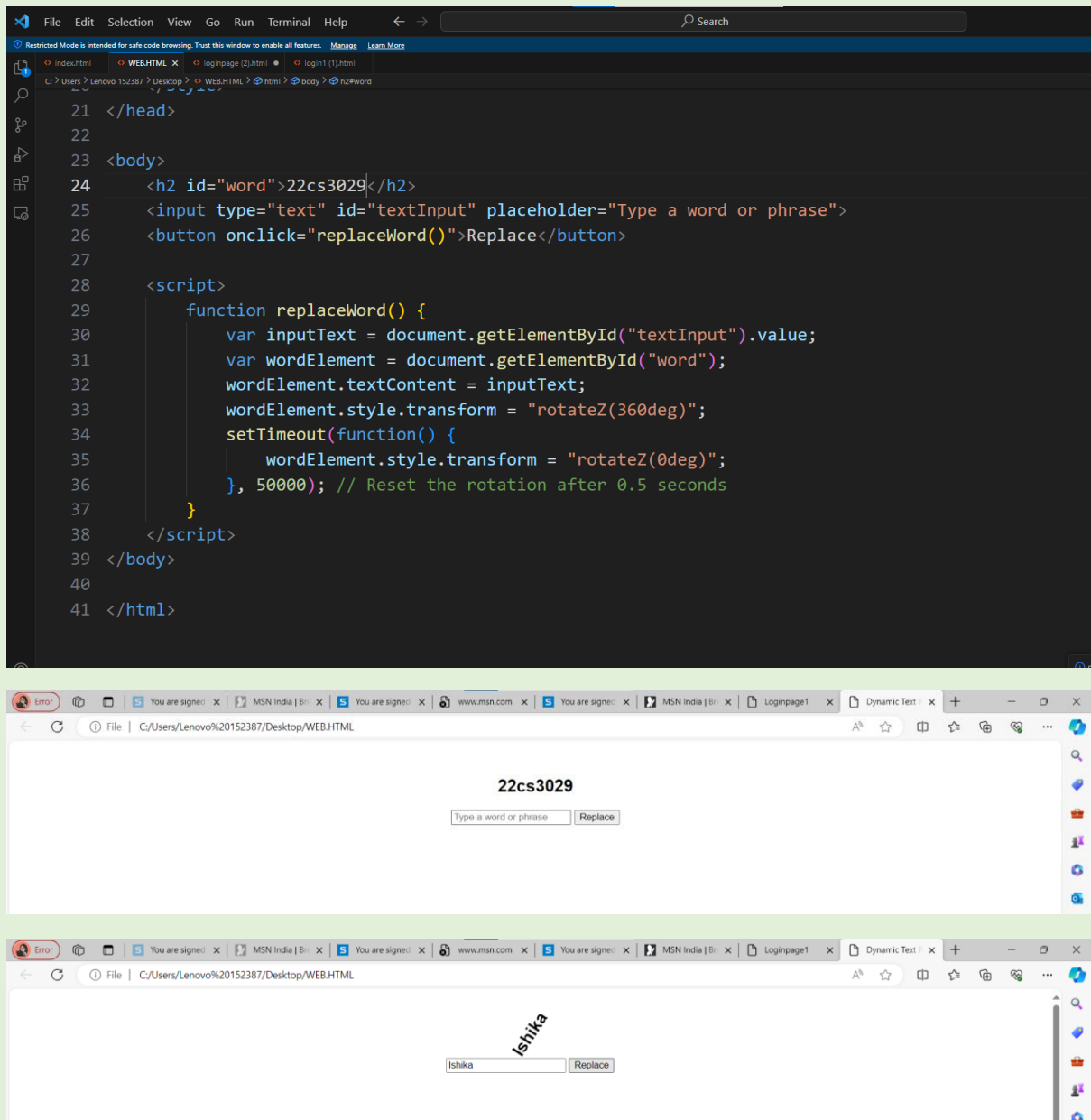
Branch-CSE

Roll no.-22cs3029

1.



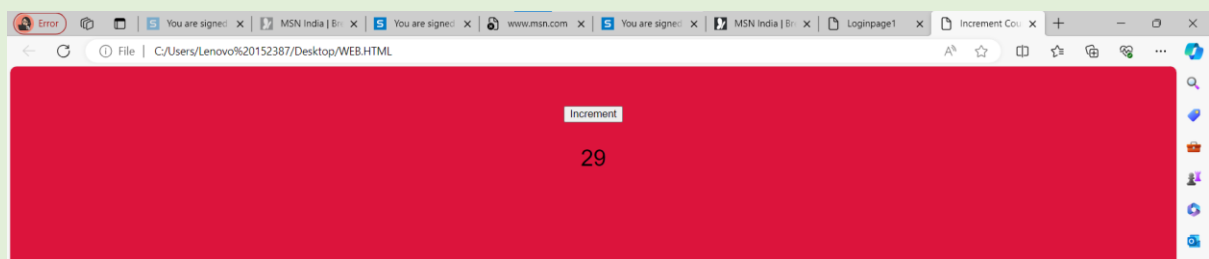
```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Dynamic Text Replacement</title>
8   <style>
9     body {
10       font-family: Arial, sans-serif;
11       text-align: center;
12       margin-top: 50px;
13     }
14
15     #word {
16       font-size: 24px;
17       margin-bottom: 20px;
18       transition: transform 2s ease-in-out;
19     }
20   </style>
21 </head>
22
23 <body>
24   <h2 id="word">22cs3029</h2>
25   <input type="text" id="textInput" placeholder="Type a word or phrase">
```



2.

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
index.html WEB.HTML x loginpage (2).html login1 (1).html
C:\Users\Lenovo\152387\Desktop\WEB.HTML > html > head > style > body
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>Increment Counter</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    margin-top: 50px;
12    background-color: crimson;
13  }
14
15  #count {
16    font-size: 16px;
17    transition: font-size 0.2s;
18  }
19 </style>
20 </head>
21 <body>
22   <button onclick="incrementCounter()">Increment</button>
23   <p id="count">0</p>
24
25   <script>
```

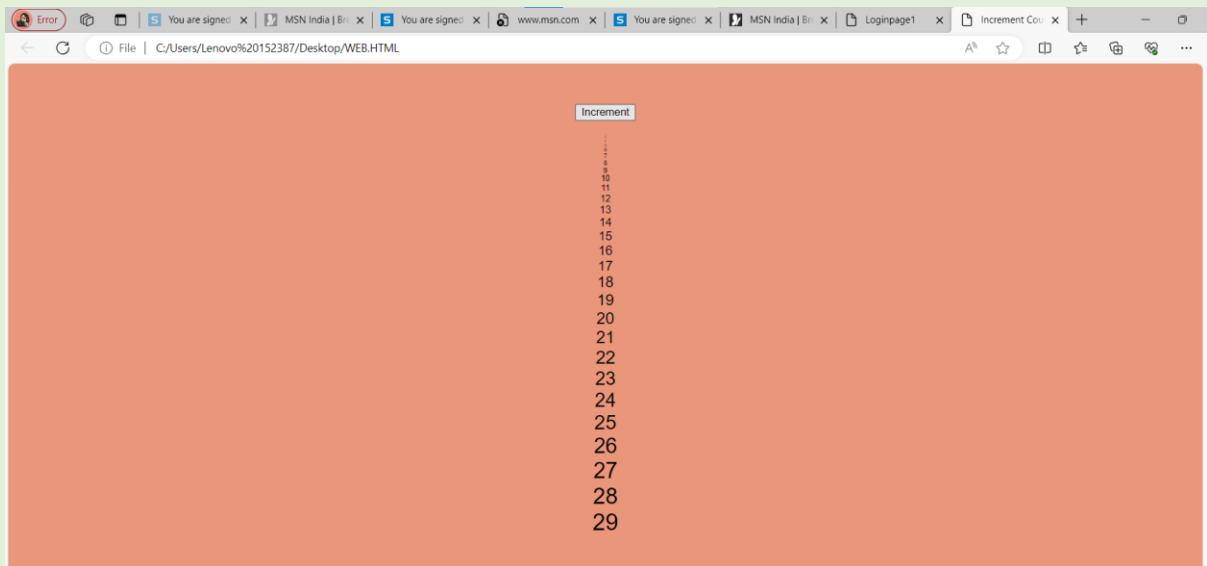
```
21 <body>
22   <button onclick="incrementCounter()">Increment</button>
23   <p id="count">0</p>
24
25   <script>
26     var count = 0;
27
28     function incrementCounter() {
29       count++;
30       var countElement = document.getElementById("count");
31       countElement.textContent = count;
32       countElement.style.fontSize = count + "px";
33     }
34   </script>
35 </body>
36 </html>
```



3.

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
index.html WEB.HTML loginpage (2).html login1 (1).html
C:\Users\Lenovo\152387\Desktop\WEB.HTML> html> head> style> body
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>Increment Counter</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    margin-top: 50px;
12    background-color: darksalmon;
13  }
14
15  #countList {
16    list-style-type: none;
17    padding: 0;
18  }
19
20  #countList li {
21    font-size: 16px;
22    transition: font-size 0.2s;
23  }
24 </style>
25 </head>
```

```
25 }
24 </style>
25 </head>
26 <body>
27   <button onclick="incrementCounter()">Increment</button>
28   <ul id="countList"></ul>
29
30   <script>
31     var count = 0;
32
33     function incrementCounter() {
34       count++;
35       var countList = document.getElementById("countList");
36       var newItem = document.createElement("li");
37       newItem.textContent = count;
38       newItem.style.fontSize = count + "px";
39       countList.appendChild(newItem);
40     }
41   </script>
42 </body>
43 </html>
```



4.

```
File Edit Selection View Go Run Terminal Help Search
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
index.html WEB.HTML x loginpage (2).html login1 (1).html
C:\Users\Lenovo 152387\Desktop\WEB.HTML> html
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Add Rows to Table</title>
8 </head>
9
10 <body>
11   <table id="myTable">
12     <thead>
13       <tr>
14         <th>Row</th>
15         <th>Sum</th>
16       </tr>
17     </thead>
18     <tbody>
19       <tr>
20         <td>1</td>
21         <td>1</td>
22       </tr>
23       <tr>
24         <td>2</td>
25         <td>1</td>
```

```

25         <td>1</td>
26     </tr>
27 </tbody>
28 </table>
29 <button onclick="addRow()">Add Row</button>
30
31 <script>
32     function addRow() {
33         var table = document.getElementById("myTable").getElementsByTagName('tbody')[0];
34         var rows = table.getElementsByTagName("tr");
35         var lastRow = rows[rows.length - 1];
36         var prevRow = lastRow.previousElementSibling;
37
38         // Check if the previous row is the table header
39         if (prevRow.tagName !== "TR") {
40             prevRow = lastRow;
41         }
42
43         var sum = parseInt(lastRow.lastElementChild.innerText) + parseInt(prevRow.lastElementChild.innerText);
44
45         var newRow = document.createElement("tr");
46         var rowNumber = rows.length + 1;

```

```

43         var sum = parseInt(lastRow.lastElementChild.innerText) + parseInt(prevRow.lastElem
44
45         var newRow = document.createElement("tr");
46         var rowNumber = rows.length + 1;
47         newRow.innerHTML = "<td>" + rowNumber + "</td><td>" + sum + "</td>";
48         table.appendChild(newRow);
49     }
50 </script>
51 </body>
52
53 </html>

```

Browser window showing the result of the JavaScript code. The browser has an "Error" message in the top left corner. The address bar shows the file path: C:/Users/Lenovo%20152387/Desktop/WEB.HTML. The page content displays a table with the following data:

Row Sum	
1	1
2	1
3	2
4	3
5	5
6	8
7	13
8	21

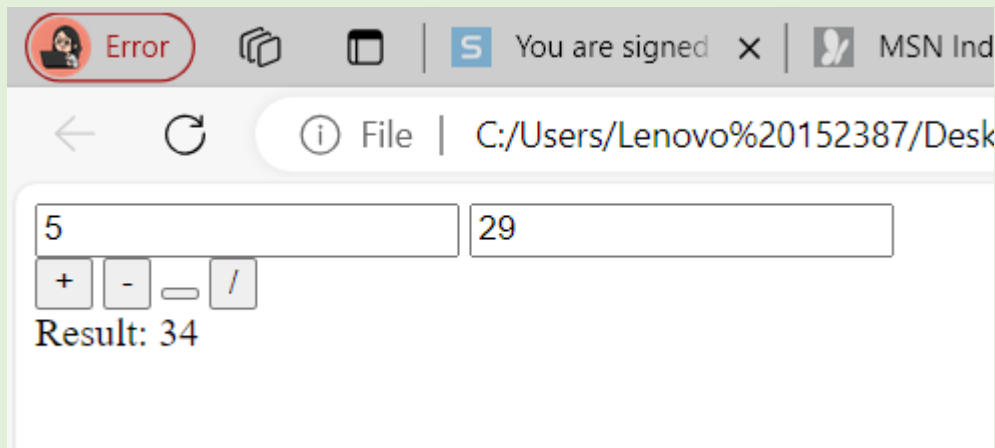
Below the table is an "Add Row" button.

5.

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
index.html WEBHTML X loginpage (2).html login1 (1).html
C:\Users\Lenovo 152387\Desktop\WEB-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>Calculator</title>
7 </head>
8 <body>
9   <input type="text" id="input1">
10  <input type="text" id="input2"><br>
11  <button onclick="calculate('+')">+</button>
12  <button onclick="calculate('-')">-</button>
13  <button onclick="calculate('*')">*</button>
14  <button onclick="calculate('/')">/</button><br>
15  <div id="result"></div>
16
17
18 <script>
19   function calculate(operator) {
20     var input1 = Number.parseInt(document.getElementById("input1").value);
21     var input2 = Number.parseInt(document.getElementById("input2").value);
22     var result;
23
24     switch (operator) {
25       case '+':
```

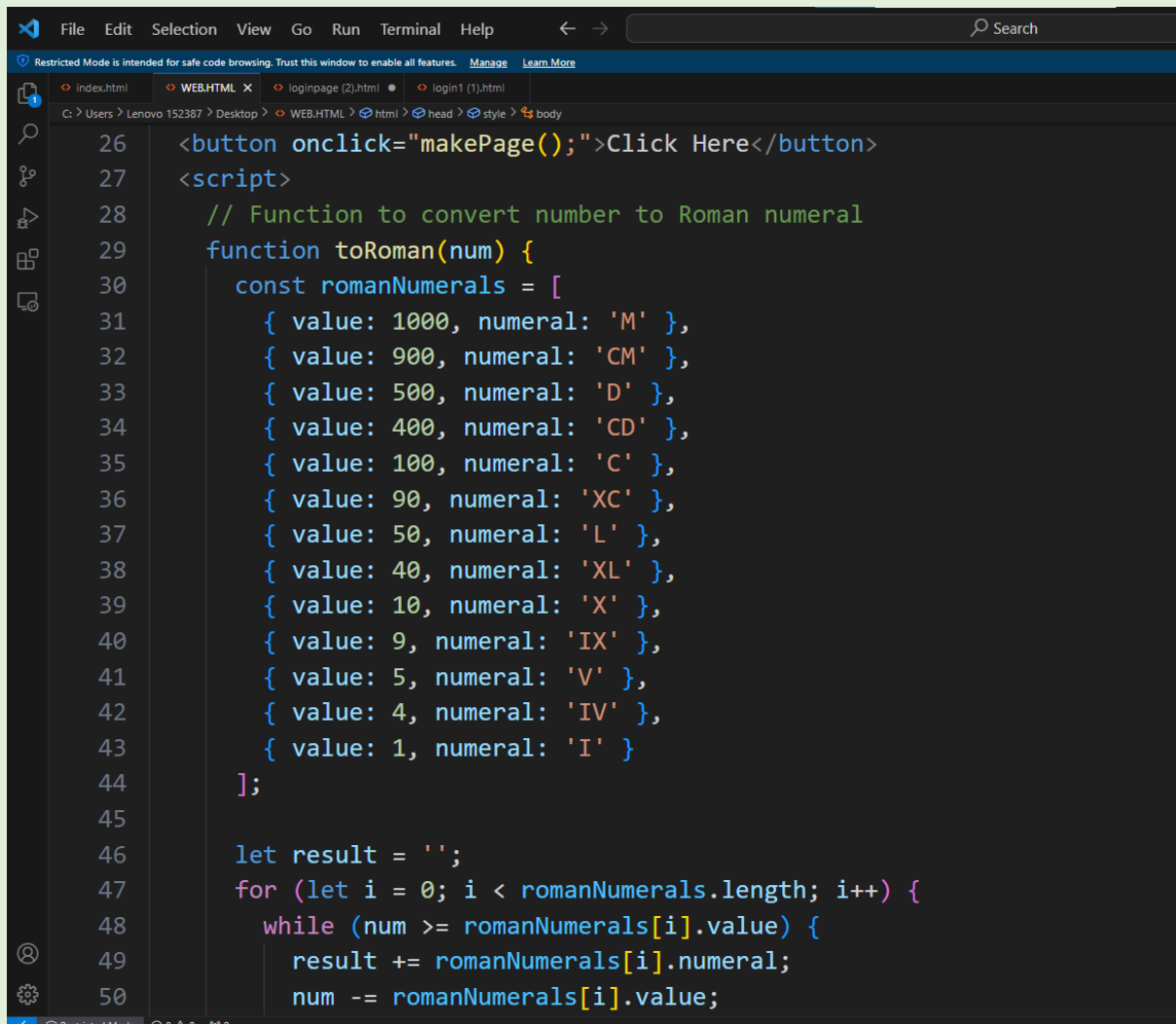
```
24     switch (operator) {
25       case '+':
26         result = input1 + input2;
27         break;
28       case '-':
29         result = input1 - input2;
30         break;
31       case '*':
32         result = input1 * input2;
33         break;
34       case '/':
35         if (input2 !== 0) {
36           result = input1 / input2;
37         } else {
38           result = "Error: Division by zero";
39         }
40         break;
41       default:
42         result = "Error: Invalid operator";
43         break;
44     }
45
46     document.getElementById("result").textContent = "Result: " + result;
47   }
48 </script>
```

```
46     document.getElementById( 'result' ).textContent = result;
47 }
48 </script>
49 </body>
50 </html>
```



6.

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
index.html WEB.HTML x loginpage (2).html login1 (1).html
C:\Users\Lenovo 152387\Desktop\WEB.HTML>html>head>style>body
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <style>
5     body{
6       background-color: ■ lavender;
7     }
8     .container {
9       display: flex;
10      flex-direction: column;
11      align-items: left;
12      padding: 20px;
13    }
14    .card {
15      background-color: ■ lavender;
16      border-radius: 10px;
17      box-shadow: 0 4px 8px ■ rgba(0, 0, 0, 0.1);
18      margin: 10px;
19      padding: 30px;
20      width: 300px;
21      text-align: left;
22    }
23  </style>
24 </head>
25 <body>
```

The screenshot shows a web browser window in "Restricted Mode". The address bar indicates the file path: C:\Users\Lenovo 152387\Desktop\WEB.HTML > html > head > style > body. The page content consists of a button and a script block. The script defines a function `toRoman(num)` that converts a number to a Roman numeral. The function uses an array of objects representing the values and their corresponding Roman numerals. It iterates through the array, adding the appropriate numeral to the result string and subtracting the value from the input number until the number is zero.

```
26 <button onclick="makePage();" >Click Here</button>
27 <script>
28   // Function to convert number to Roman numeral
29   function toRoman(num) {
30     const romanNumerals = [
31       { value: 1000, numeral: 'M' },
32       { value: 900, numeral: 'CM' },
33       { value: 500, numeral: 'D' },
34       { value: 400, numeral: 'CD' },
35       { value: 100, numeral: 'C' },
36       { value: 90, numeral: 'XC' },
37       { value: 50, numeral: 'L' },
38       { value: 40, numeral: 'XL' },
39       { value: 10, numeral: 'X' },
40       { value: 9, numeral: 'IX' },
41       { value: 5, numeral: 'V' },
42       { value: 4, numeral: 'IV' },
43       { value: 1, numeral: 'I' }
44     ];
45
46     let result = '';
47     for (let i = 0; i < romanNumerals.length; i++) {
48       while (num >= romanNumerals[i].value) {
49         result += romanNumerals[i].numeral;
50         num -= romanNumerals[i].value;
```

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
index.html WEB.HTML X loginpage (2).html login1 (1).html
C:\Users\Lenovo 152387\Desktop\WEB.HTML> html > head > style > body

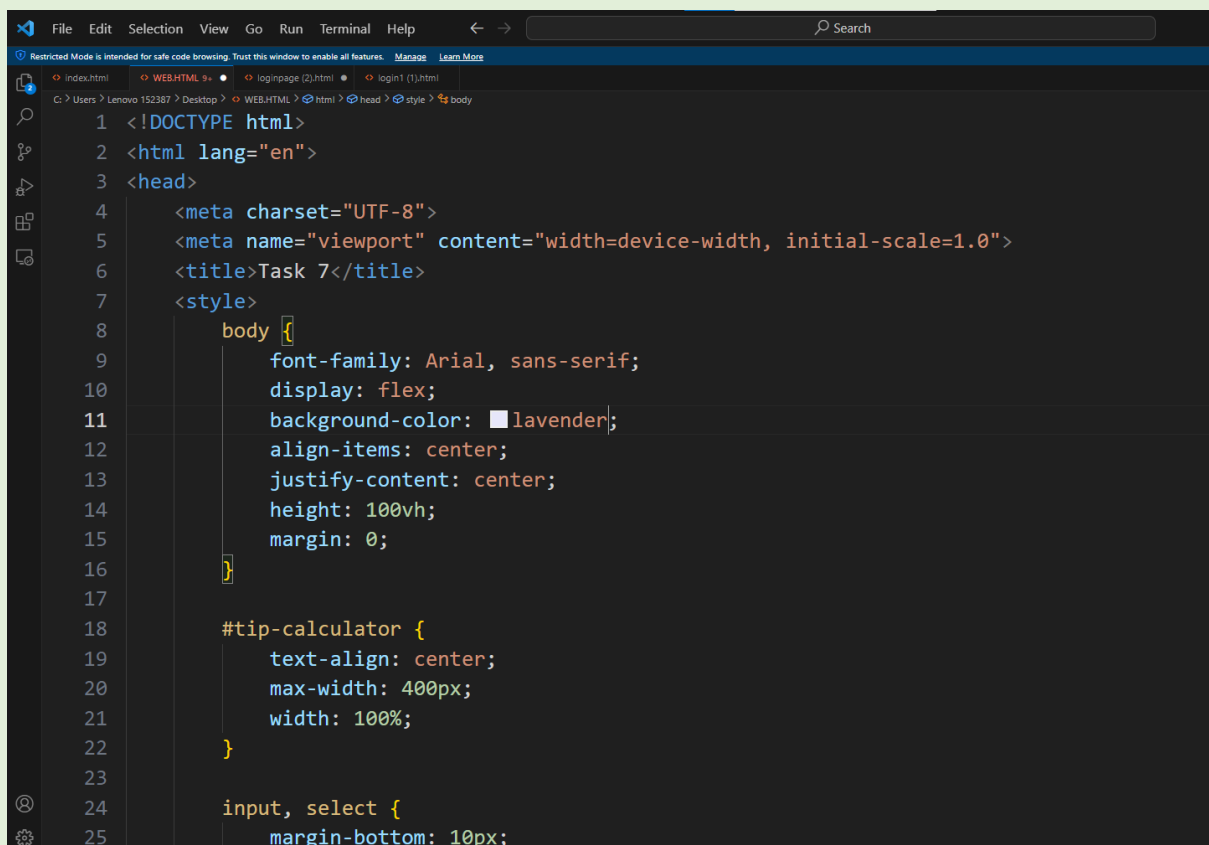
46     let result = '';
47     for (let i = 0; i < romanNumerals.length; i++) {
48         while (num >= romanNumerals[i].value) {
49             result += romanNumerals[i].numeral;
50             num -= romanNumerals[i].value;
51         }
52     }
53     return result;
54 }
55
56 function makePage() {
57     // Create container div
58     var container = document.createElement('div');
59     container.className = 'container';
60
61     // Create header and paragraph
62     var header = document.createElement('h1');
63     header.textContent = 'This is a WebPage';
64     var paragraph = document.createElement('p');
65     paragraph.textContent = 'THERE IS LIST OF ITEMS BELOW PARAGRAPH';
66
67     // Create first list with Roman numerals
68     var list1 = document.createElement('ol');
69     list1.style.listStyleType = 'none'; // Remove default numbering
70     for (let i = 1; i <= 3; i++) {
```

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
index.html WEB.HTML X loginpage (2).html login1 (1).html
C:\Users\Lenovo 152387\Desktop\WEB.HTML> html > head > style > body

69     list1.style.listStyleType = 'none'; // Remove default numbering
70     for (let i = 1; i <= 3; i++) {
71         var li = document.createElement('li');
72         li.textContent = toRoman(i) + '. Item ' + i;
73         list1.appendChild(li);
74     }
75
76
77
78     // Append elements to container
79     container.appendChild(header);
80     container.appendChild(paragraph);
81     container.appendChild(list1);
82
83
84     // Append container to body
85     document.body.appendChild(container);
86 }
87 </script>
88 </body>
89 </html>
90
```



7.



```
C:\Users\Lenovo 152387\Desktop> WEB.HTML > html > head > style > body
22      }
23
24      input, select {
25          margin-bottom: 10px;
26          padding: 10px;
27          width: 100%;
28          box-sizing: border-box;
29      }
30
31      button {
32          padding: 10px;
33          background-color: deeppink;
34          color: white;
35          border: none;
36          cursor: pointer;
37          width: 100%;
38      }
39
40      #tip-result {
41          margin-top: 20px;
42          font-size: 1.2em;
43      }
44  </style>
45  </head>
46  <body>
```

```
44  </style>
45  </head>
46  <body>
47      <div id="tip-calculator">
48          <h2>Tip Calculator</h2>
49          <label for="billAmount">Bill Amount</label>
50          <input type="number" id="billAmount" placeholder="Enter bill amount">
51
52          <label for="tipPercentage">Tip Percentage</label>
53          <input type="range" id="tipPercentage" min="0" max="30" step="1" value="15">
54          <span id="tipPercentageValue">15%</span>
55
56          <label for="numPeople">Number of People</label>
57          <select id="numPeople">
58              <option value="1">1 person</option>
59              <option value="2">2 people</option>
60              <option value="3">3 people</option>
61              <option value="4">4 people</option>
62          </select>
63
64          <button onclick="calculateTip()">Calculate Tip</button>
65
66          <div id="tip-result"></div>
67      </div>
68
```

```

69     <script>
70         function calculateTip() {
71             var billAmount = parseFloat(document.getElementById('billAmount').value);
72             var tipPercentage = parseInt(document.getElementById('tipPercentage').value);
73             var numPeople = parseInt(document.getElementById('numPeople').value);
74
75             var tipAmount = (billAmount * tipPercentage) / 100;
76             var totalAmount = billAmount + tipAmount;
77             var tipPerPerson = tipAmount / numPeople;
78
79             var resultMessage = Tip: ${tipAmount.toFixed(2)}<br>;
80             resultMessage += Total Amount: ${totalAmount.toFixed(2)}<br>;
81             resultMessage += Tip per Person: ${tipPerPerson.toFixed(2)};
82
83             document.getElementById('tip-result').innerHTML = resultMessage;
84         }
85
86         document.getElementById('tipPercentage').addEventListener('input', function() {
87             document.getElementById('tipPercentageValue').innerText = this.value + '%';
88         });
89     </script>
90 </body>
91 </html>

```

Tip Calculator

Bill Amount

Tip Percentage



15% Number of People

Calculate Tip

Tip: \$5250.00

Total Amount: \$40250.00

Tip per Person: \$1312.50