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Roll – 22IT3052
Q.1)


```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Word Replacer</title>
<style>
    #word {
        display: inline-block;
        transition: transform 0.5s ease-in-out;
    }
    .spin {
        transform: rotate(360deg);
    }
</style>
</head>
<body>
    <h2 id="word">Hello</h2>
    <br>
    <input type="text" id="textInput" placeholder="Enter a word or phrase">
    <button onclick="replaceWord()">Replace</button>

    <script>
        function replaceWord() {
            var input = document.getElementById("textInput").value;
            var word = document.getElementById("word");
            word.textContent = input;
            word.classList.add("spin");
            setTimeout(function() {
                word.classList.remove("spin");
            }, 500); // Reset the animation after 0.5s
        }
    </script>
</body>
</html>
```
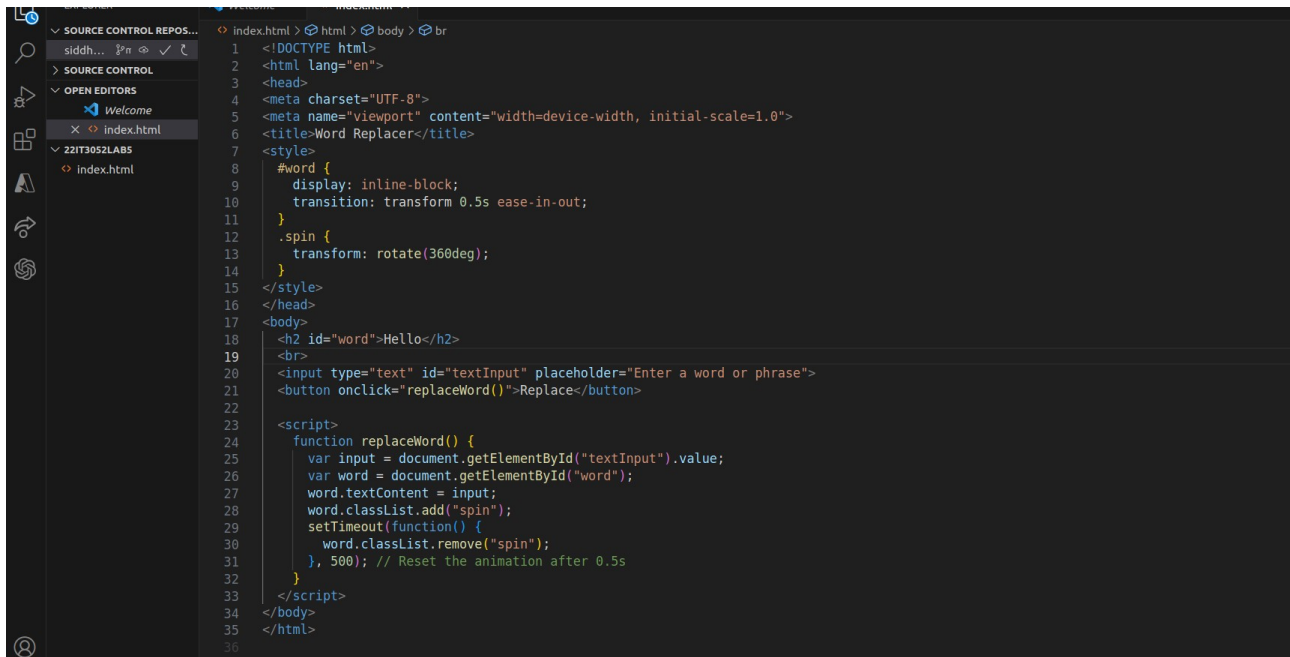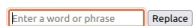
output-

Hello

Enter a word or phrase | Replace

output-2

my name is siddharth | Replace

output3

my name is siddharth

my name is siddharth | Replace

Q.2)

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Counting Page</title>
<style>
    #count {
        font-size: 16px;
        transition: font-size 0.3s;
    }
</style>
</head>
<body>
    <button onclick="incrementCount()">Increment Count</button>
    <p id="count">0</p>

    <script>
        var count = 0;
        var countParagraph = document.getElementById("count");

        function incrementCount() {
            count++;
            countParagraph.textContent = count;
            updateFontSize();
        }

        function updateFontSize() {

            var fontSize = 16 + count * 2;
            countParagraph.style.fontSize = fontSize + "px";
        }
    </script>
</body>
</html>
```

output

[Increment Count]

0

output2

Increment Count

7

output3

Increment Count

13

Q.3)

```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>Counting Page</title>
7   <style>
8     #countList {
9       list-style-type: none;
10      padding: 0;
11    }
12    .countItem {
13      font-size: 16px;
14      transition: font-size 0.3s;
15    }
16  </style>
17  </head>
18  <body>
19    <button onclick="incrementCount()">Increment Count</button>
20    <ul id="countList"></ul>
21
22    <script>
23      var count = 0;
24      var countList = document.getElementById("countList");
25
26      function incrementCount() {
27        count++;
28        var newItem = document.createElement("li");
29        newItem.textContent = count;
30        newItem.className = "countItem";
31        updateFontSize(newItem);
32        countList.appendChild(newItem);
33      }
34
35      function updateFontSize(item) {
36        // Adjust font size based on the count
37        var fontSize = 16 + count * 2; // Increase font size as the count gets larger
38        item.style.fontSize = fontSize + "px";
39      }
```
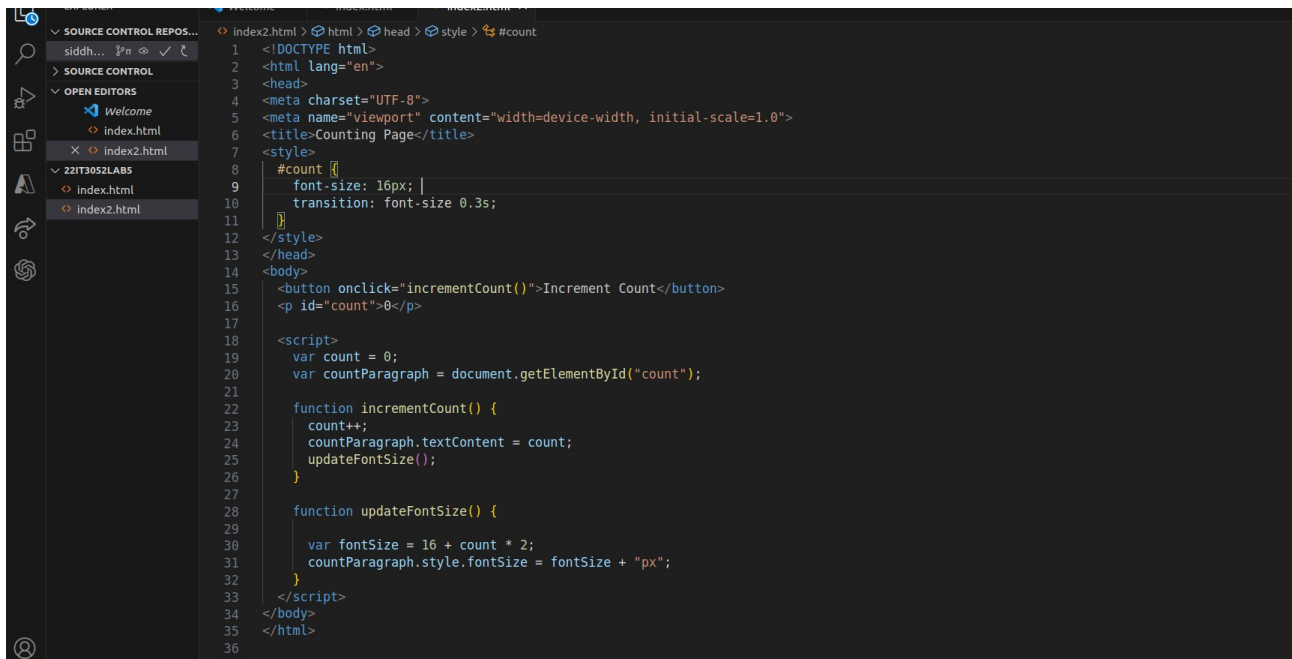
output

Increment Count

output2

Increment Count

1
2
3
4
5
6
7
8
9

Q.5)

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Counting Page</title>
<style>
  #countList {
    list-style-type: none;
    padding: 0;
  }
  .countItem {
    font-size: 16px;
    transition: font-size 0.3s;
  }
</style>
</head>
<body>
  <button onclick="incrementCount()">Increment Count</button>
  <ul id="countList"></ul>

  <script>
    var count = 0;
    var countList = document.getElementById("countList");

    function incrementCount() {
      count++;
      var newItem = document.createElement("li");
      newItem.textContent = count;
      newItem.className = "countItem";
      updateFontSize(newItem);
      countList.appendChild(newItem);
    }

    function updateFontSize(item) {
      // Adjust font size based on the count
      var fontSize = 16 + count * 2; // Increase font size as the count gets larger
      item.style.fontSize = fontSize + "px";
    }
```

output

Add Row	
Row Number	**Sum of Previous Two Rows**
1	0
2	1

Q.6)

```
index.html > ...
2   <html lang="en">
16  <body>
21    <button onclick="performOperation('-')">-</button>
22    <button onclick="performOperation('*')">*</button>
23    <button onclick="performOperation('/')">/</button>
24    <br>
25    <div id="result"></div>
26
27    <script>
        Complexity is 11 You must be kidding
28      function performOperation(operator) {
29        var input1 = Number.parseInt(document.getElementById("input1").value);
30        var input2 = Number.parseInt(document.getElementById("input2").value);
31        var result;
32
33        switch(operator) {
34          case '+':
35            result = input1 + input2;
36            break;
37          case '-':
38            result = input1 - input2;
39            break;
40          case '*':
41            result = input1 * input2;
42            break;
43          case '/':
44            result = input1 / input2;
45            break;
46          default:
47            result = "Invalid operator";
48        }
49
50        document.getElementById("result").textContent = "Result: " + result;
51      }
52    </script>
53  </body>
54  </html>
55  |
```

output

2 3

+ - * /

Result: 5