NAME :- ANURAG KUMAR SONKAR

ROLL NO :-22CS3013

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>Spinning Text</title>
    <style>
        body {
            font-family: sans-serif;
            margin: 0;
            display: flex;
            flex-direction: column;
            justify-content: center;
            align-items: center;
            min-height: 100vh;
        }

        h2 {
            font-size: 3rem;
            margin-bottom: 20px;
        }

        h2.spinning {
            animation: spin 2s linear infinite;
        }

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

        input[type="text"] {
            padding: 10px;
            border: 1px solid #ccc;
            border-radius: 5px;
            font-size: 16px;
        }

        button {
            padding: 10px 20px;
            background-color: #4CAF50;
            color: white;
            border: none;
            border-radius: 5px;
            cursor: pointer;
            margin-top: 10px;
        }
    </style>
</head>
<body>
    <h2>Hello</h2>
    <input type="text" id="text-input" placeholder="Enter text">
    <button id="spin-button">Spin!</button>

    <script>
        const h2 = document.querySelector('h2');
        const textInput = document.getElementById('text-input');
        const spinButton = document.getElementById('spin-button');

        spinButton.addEventListener('click', () => {
            const newText = textInput.value;
            if (newText) {

                h2.textContent = newText;

                h2.classList.add('spinning');
            }
        });
        textInput.addEventListener('input', () => {
            h2.classList.remove('spinning');
        });
    </script>
</body>
</html>
```

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Q-2

```
Welcome        Q1.html        Q2.html    ×    Q7.html

Q2.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>Assignment</title>
 8      <style>
 9
10      </style>
11    </head>
12
13    <body>
14      <button class="counter" onclick="increase()">Count</button>
15      <h3 id="count">0</h3>
16      <script>
17        const counter = document.querySelector(".counter");
18        const count = document.querySelector("#count");
19        let num = 1;
20        function increase() {
21          num = num + 1;
22          count.innerHTML = num;
23          count.style.fontSize = num + "px";
24        }
25
26      </script>
27    </body>
28
29    </html>
```
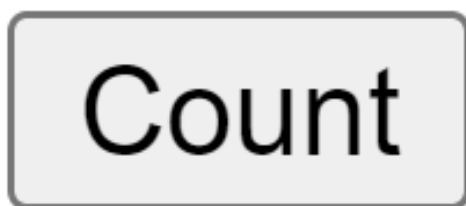
Ans-

Count

11

Q-3

```html
<!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>
    body {
        font-family: Arial, sans-serif;
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
        margin: 0;
    }

    ul {
        list-style-type: none;
        padding: 0;
    }

    li {
        font-size: 16px;
        transition: font-size 0.3s ease-in-out;
    }
</style>
</head>
<body>

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

<script>
    var count = 0;

    function incrementCounter() {
        count++;
        var listItem = document.createElement("li");
        listItem.innerText = count;
        listItem.style.fontSize = count * 2 + "px";
        document.getElementById("countList").appendChild(listItem);
    }
</script>

</body>
</html>
```

Ans-

2
3
4
5
6
7
8
9

Increment Count

10

11

12

13

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>Calculator</title>
</head>
<body>
    <h1>Calculator</h1>
    <label for="num1"> 1: </label>
    <input type="text" id="num1" name="num1">
    <br>
    <label for="num2"> 2: </label>
    <input type="text" id="num2" name="num2">
    <br>
    <button onclick="calculate('+')">+</button>
    <button onclick="calculate('-')">-</button>
    <button onclick="calculate('*')">*</button>
    <button onclick="calculate('/')">/</button>
    <br>
    <p id="result"></p>
    <script>
        function calculate(operator) {
            const num1 = Number.parseInt(document.getElementById("num1").value);
            const num2 = Number.parseInt(document.getElementById("num2").value);
            let result = 0;

            switch (operator) {
                case "+":
                    result = num1 + num2;
                    break;
                case "-":
                    result = num1 - num2;
                    break;
                case "*":
                    result = num1 * num2;
                    break;
                case "/":
                    if (num2 !== 0) {
                        result = num1 / num2;
                    } else {
                        result = "Division by zero!";
                    }
                    break;
            }

            document.getElementById("result").textContent = result;
        }
    </script>
</body>
</html>
```

Ans-

Q-6

```
<> Q6.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>Dynamic Page Creation</title>
7    </head>
8    <body>
9    <button onclick="makePage();">Click Here</button>
10   <script>
11   function makePage() {
12       var h1 = document.createElement('h1');
13       h1.textContent = "I am an H1";
14
15       var paragraph = document.createElement('p');
16       paragraph.textContent = "This is a paragraph followed by a list";
17
18       var ol = document.createElement('ol');
19       ol.setAttribute('type', 'I');
20
21       var li1 = document.createElement('li');
22       li1.textContent = "This is first";
23       ol.appendChild(li1);
24
25       var li2 = document.createElement('li');
26       li2.textContent = "This is second";
27       ol.appendChild(li2);
28
29       document.body.appendChild(h1);
30       document.body.appendChild(paragraph);
31       document.body.appendChild(ol);
32   }
33   </script>
34
35
36   </body>
37   </html>
38
```

Ans-

Click Here

I am an H1

This is a paragraph followed by a list

    I. This is first
   II. This is second

```html
Q7.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   <style>
8       body {
9           font-family: Arial, sans-serif;
10          margin: 0;
11          padding: 0;
12          display: flex;
13          justify-content: center;
14          align-items: center;
15          height: 100vh;
16          background-color: #f4f4f4;
17      }
18      .calculator {
19          background-color: #fff;
20          border-radius: 5px;
21          padding: 20px;
22          box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
23      }
24      .input-group {
25          margin-bottom: 10px;
26      }
27      .input-group label {
28          display: block;
29          margin-bottom: 5px;
30      }
31      .input-group input {
32          width: 100%;
33          padding: 8px;
34          border-radius: 3px;
35          border: 1px solid #ccc;
36      }
37      .result {
38          margin-top: 20px;
39      }
40  </style>
41  </head>
42  <body>
43  <div class="calculator">
44      <div class="input-group">
45          <label for="billAmount">Bill Amount:</label>
46          <input type="number" id="billAmount" min="0" step="0.01">
47      </div>
48      <div class="input-group">
49          <label for="tipPercentage">Tip Percentage:</label>
50          <input type="number" id="tipPercentage" min="0" max="100" step="1">
51      </div>
52      <div class="input-group">
53          <label for="numberOfPeople">Number of People:</label>
54          <input type="number" id="numberOfPeople" min="1">
55      </div>
56      <button onclick="calculateTip()">Calculate</button>
57      <div class="result" id="result"></div>
58  </div>
59
60
61  <script>
62  function calculateTip() {
63      var billAmount = parseFloat(document.getElementById('billAmount').value);
64      var tipPercentage = parseFloat(document.getElementById('tipPercentage').value);
65      var numberOfPeople = parseInt(document.getElementById('numberOfPeople').value);
66
67
68      if (isNaN(billAmount) || isNaN(tipPercentage) || isNaN(numberOfPeople) || billAmount <= 0 || tipPercentage < 0 || numberOfPeople <= 0) {
69          document.getElementById('result').textContent = "Please enter valid values";
70          return;
71      }
72
73
74      var tipAmount = billAmount * (tipPercentage / 100);
75      var amountPerPerson = tipAmount / numberOfPeople;
76
77
78      document.getElementById('result').textContent = "Tip per person: Rs. " + amountPerPerson.toFixed(2);
79  }
80  </script>
81
82
83  </body>
84  </html>
85
```

Bill Amount:

20

Tip Percentage:

10

Number of People:

5

Calculate

Tip per person: Rs. 0.40