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GitHub Repository: <https://github.com/khasamoh/Practical_session_3.git>

**Question 1&2:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Regular Expression</title>

</head>

<style>

    div{width: 30%;margin: auto;text-align: center;border-left: 2px dashed rgba(255, 136, 0, 0.918);border-right: 2px dashed rgba(255, 136, 0, 0.918);padding: 10px;}

    input{width: 95%;font-size: 18px;height: 30px;padding-left: 5px;}

    label{text-align: center;font-size: 20px;font-style: italic;font-weight: bold;}

</style>

</head>

<script>

    var regex = /^<\w+\s\*(\w+="[^"]\*"\s\*)\*\/>$/;

    var tag = '<img src="foo.jpg" />';

    if (regex.test(tag)) {

    console.log('Valid self-closing HTML tag');

    } else {

    console.log('Invalid self-closing HTML tag');

    }

    document.addEventListener('DOMContentLoaded',()=>{

        let input = document.querySelector('input');

        let label = document.querySelector('label');

        let input1 = document.querySelector('#input');

        let label1 = document.querySelector('#label');

        input.onkeyup = ()=>{

            let regex = /^\$\d+(\.\d{2})?$/;

            if(regex.test(input.value)){

                label.textContent = 'Valid';

                label.style.color = 'green';

                input.style.color = 'green';

            }else{

                label.textContent = 'Invalid';

                label.style.color = 'red';

                input.style.color = 'red';

            }

        }

        input1.onkeyup = ()=>{

            let regex1 = /^<\w+\s\*(\w+="[^"]\*"\s\*)\*\/>$/;

            if(regex1.test(input1.value)){

                label1.textContent = 'Valid';

                label1.style.color = 'green';

                input1.style.color = 'green';

            }else{

                label1.textContent = 'Invalid';

                label1.style.color = 'red';

                input1.style.color = 'red';

            }

        }

    });

</script>

<body>

<div>

    <h3>Question 1 Test validation of Price start with $</h3>

    <input type="text" placeholder="Enter price"><br>

    <label></label><br>

    <hr>

    <h3>Question 2 Test validation of HTML tag. A tag must start with “<” and end

        with “/>”</h3>

    <input type="text" id="input" placeholder="Enter HTML Tag"><br>

    <label id="label"></label><br>

</div>

</body>

</html>

**Question 3:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<script>

    document.addEventListener("DOMContentLoaded", ()=> {

        var list = document.querySelector("#list");

        var itemInput = document.querySelector("#item");

        var addButton = document.querySelector("#add");

        var removeButton = document.querySelector("#remove");

        var isYellow = false;

        addButton.addEventListener("click", ()=> {

          var itemText = itemInput.value.trim();

          if (itemText !== "") {

            var itemArray = itemText.split(" ");

            itemArray.forEach((word)=> {

              var li = document.createElement("li");

              li.textContent = word;

              li.style.backgroundColor = isYellow ? "yellow" : "white";

              list.appendChild(li);

              isYellow = !isYellow;

            });

            itemInput.value = "";

          }

        });

        removeButton.addEventListener("click", ()=> {

          var itemText = itemInput.value.trim().toLowerCase();

          var items = list.getElementsByTagName("li");

          for (var i = 0; i < items.length; i++) {

            var item = items[i];

            if (item.textContent.toLowerCase() === itemText) {

              item.parentNode.removeChild(item);

              isYellow = !isYellow;

              break;

            }

          }

          itemInput.value = "";

        });

      });

</script>

<body>

    <h1>My super nifty to-do list</h1>

    <ul id="list"></ul>

    <div>

    <input type="text" id="item" />

    <button id="add">add</button>

    <button id="remove">remove</button>

    </div>

</body>

</html>

**Question 4:**

**Qn4.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <script src="sesame-street.js"></script>

</head>

<body>

    <h1>Whitaker's Desserts</h1>

    <h2 id="cookie-header">Whitaker's Cookie Jar:</h2>

    <ul id="cookie-jar">

    <li class="cookie">Chocolate Chip</li>

    <li class="cookie">Oatmeal raisin</li>

    <li class="cookie">Macaroon</li>

    </ul>

    <p id="cookie-count"></p>

    <h2>Whitaker's Pie Cupboard:</h2>

    <ul id="pie-cupboard">

    </ul>

    <button id="moar-pie">Moar Pie!</button>

</body>

</html>

**sesame-street.js**

document.addEventListener("DOMContentLoaded", ()=> {

  // Big Bird Yellow

  var cookieHeader = document.querySelector("#cookie-header");

  cookieHeader.style.color = "#f7f16d";

  // Count Chocula

  var cookieJar = document.querySelector("#cookie-jar");

  var cookies = cookieJar.getElementsByClassName("cookie");

  var cookieCount = cookies.length;

  var cookieCountText = "There are " + cookieCount + " cookie(s) in the cookie jar!";

  var cookieCountElement = document.querySelector("#cookie-count");

  cookieCountElement.textContent = cookieCountText;

  // Cookie Monster hungry

  setInterval(()=> {

    if (cookieCount > 0) {

      cookieJar.removeChild(cookies[cookieCount - 1]);

      cookieCount--;

      cookieCountText = "There are " + cookieCount + " cookie(s) in the cookie jar!";

      cookieCountElement.textContent = cookieCountText;

    }

  }, 30000);

});