

THE STATE UNIVERSITY OF ZANZIBAR SCHOOL OF COMPUTING

DEPARTMENT OF COMPUTER SCIENCES AND INFORMATION TECHNOLOGY

COUSE TITLE: PRINCIPLE OF NETWORK AND SECURITY

COURSE CODE: CS/ INF 2216

STUDENT NAME: MAYASA ABDALLAH MIKDADI.

REGISTRATION NUMBER: BITAM/11/23/041/TZ

INSTRUCTOR NAME: Mr. Masoud Mmanga

INDIVIDUAL ASSIGMENT:

QN.01

```
ON_1.html > Ohtml > Obody > Oscript
     <!DOCTYPE html>
     <html lang="en">
         <meta charset="UTF-8">
         <title>Self-Closing Tag Validator</title>
         <h1>Self-Closing Tag Validator</h1>
         <input type="text" id="tag" placeholder="Enter a tag (e.g., <img src='foo.jpg' />)">
         <button id="validate">Validate Tag</button>
         const tagRegex = /^<\w+(\s+\w+="[^"]*")*\s*\/>$/;
              const tagInput = document.getElementById("tag");
             const validateBtn = document.getElementById("validate");
             const result = document.getElementById("result");
             validateBtn.onclick = () => {
                const tag = tagInput.value.trim();
                 if (tagRegex.test(tag)) {
    result.textContent = " Valid self-closing tag!";
                     result.style.color = "green";
                     result.textContent = " Invalid tag format!";
                     result.style.color = "red";
                                                                                        Activate V
```

Price Validator

14.99 Validate Price

Invalid price format!

Price Validator

\$1234567.00 Validate Price

Valid price format!

QN.02

```
<html lang="en">
      <head>
         <meta charset="UTF-8">
          <title>Price Validator</title>
          <h1>Price Validator</h1>
          <input type="text" id="price" placeholder="Enter price">
          <button id="validate">Validate Price</button>
          const priceRegex = /^\$\d*(\.\d{2})?$/;
              const priceInput = document.getElementById("price");
              const validateBtn = document.getElementById("validate");
              const result = document.getElementById("result");
                   const price = priceInput.value.trim();
                   if (priceRegex.test(price)) {
    result.textContent = "Valid price format!";
    result.style.color = "green";
                      result.textContent = "Invalid price format!";
result.style.color = "red";
           </script>
```

Self-Closing Tag Validator



Valid self-closing tag!

Self-Closing Tag Validator



Invalid tag format!

QN.03

```
QN_03.html \gt \diamondsuit html \gt \diamondsuit body \gt \diamondsuit script
    <html lang="en">
        <meta charset="UTF-8">
        <title>Whitaker's Desserts</title>
        <h1>Whitaker's Desserts</h1>
           class="cookie">Chocolate Chip
class="cookie">Oatmeal Raisin
class="cookie">Macaroon

        <h2>Whitaker's Pie Cupboard:</h2>
         ul id="pie-cupboard">
        <button id="moar-pie">Moar Pie!</button>
            document.addEventListener("DOMContentLoaded", () => {
    document.getElementById("cookie-header").style.color = "#f7f16d";
                 function updateCookieCount() {
                      const cookies = document.querySelectorAll(".cookie").length;
                      document.getElementById("cookie-count").textContent = `${cookies}! There are ${cookies}
                  updateCookieCount();
                 setInterval(() => {
                      const cookieJar = document.getElementById("cookie-jar");
                                                                                                 Activate Windows
                      if (cookieJar.children.length > 0) {
```

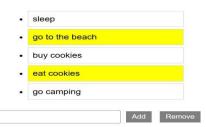
1.Before anything has been added

My super nifty to-do list

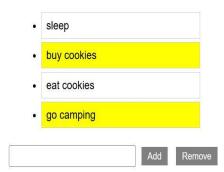


2. After 5 items added and none removed

My super nifty to-do list



My super nifty to-do list



4.After remove of item "buy cookies"

My super nifty to-do list



QN.04

Whitaker's Desserts

Whitaker's Cookie Jar:

Chocolate Chip

Oatmeal Raisin

Macaroon

3! There are 3 cookie(s) in the cookie jar!

Whitaker's Pie Cupboard:

Moar Pie!

Whitaker's Desserts

Whitaker's Cookie Jar:

Chocolate Chip

Oatmeal Raisin

2! There are 2 cookie(s) in the cookie jar!

Whitaker's Pie Cupboard:

Moar Pie!

Whitaker's Desserts

Whitaker's Cookie Jar:

Chocolate Chip

1! There are 1 cookie(s) in the cookie jar!

Whitaker's Pie Cupboard:

Moar Pie!

Whitaker's Desserts

Whitaker's Cookie Jar:

0! There are 0 cookie(s) in the cookie jar!

Whitaker's Pie Cupboard:

Moar Pie!