<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Store Users Preferences</title>

</head>

<table>

    <p>FAITH NAZI NYALE</p>

    <P>SCT221-0489/2021</P>

    <img src="nazi.jpeg" width="150px" height="150px">

</table>

<body onload="Initialize()">

    <ul id="storedItems"></ul>

    <button type="button" onclick="setColorPreference('red')">Red</button>

    <button type="button" onclick="setColorPreference('green')">Green</button>

    <button type="button" onclick="setColorPreference('blue')">Blue</button>

    <div id="visitCount"></div>

    <button type="button" onclick="removeCount()">remove count</button>

    <button type="button" onclick="clearAll()">clear all</button>

    <script type="text/javascript">

        const localStorage = window.localStorage;

        const Initialize = () => {

            if(localStorage) {

                const count = localStorage.getItem("visitCount") || 0;

                const newCount = parseInt(count) + 1;

                localStorage.setItem("visitCount",newCount);

                updateDOM();

            }

        };

        const updateDOM = () => {

            const count = localStorage.getItem("visitCount") || 0;

            const storedPreferences = localStorage.getItem("preference");       //get stored preference from local storage

            const preference = storedPreferences ? JSON.parse(storedPreferences) : {} ;     //if storedPreferences exist, convert the string to preference JSON object else initialize with empty object {}

            document.getElementById("visitCount").innerHTML = `visit count = ${count}`;

            document.body.style.background = preference.color || "white";       //update body based on the body background based on color stored in the preference if none initialize with white

            showAllStoredKeyValues();

        };

        const setColorPreference = (color) => {     //takes color as parameter

            const preference = {color};     //create JSON object

            localStorage.setItem("preference",JSON.stringify(preference));      //convert JSON object to string then store it in local storage

            updateDOM();

        };

        const removeCount = () => {

            localStorage.removeItem("visitCount");

            updateDOM();

        };

        const clearAll = () => {

            localStorage.clear();

            updateDOM();

        };

        const showAllStoredKeyValues = () => {

            console.log(`we have ${localStorage.length} values`)

            const ul = document.getElementById("storedItems");

            ul.innerHTML = "";

            for(let index = 0; index < localStorage.length; index++){

                const key = localStorage.key(index);

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

                li.appendChild(document.createTextNode(`${key} = ${localStorage.getItem(key)}`));

                ul.appendChild(li);

            }

        };

    </script>

</body>

</html>