**Q: 14**

**Title:**

L1 - Debug a Dynamic Form with localStorage

**Problem Statement:**

You are given a partially implemented form that collects user preferences (theme, language, and notification settings) and stores them in localStorage. However, the application has the following issues:

1. Preferences are not loading correctly on page reload.
2. Notification preferences are not being saved or displayed properly.
3. The theme does not dynamically update after saving preferences.

Debug the following code to make the application functional:

<form id="preferencesForm">

<label for="theme">Theme:</label>

<select id="theme">

<option value="light">Light</option>

<option value="dark">Dark</option>

</select>

<label for="language">Language:</label>

<select id="language">

<option value="en">English</option>

<option value="es">Spanish</option>

</select>

<label for="notifications">Notifications:</label>

<input type="checkbox" id="notifications">

<button type="submit">Save Preferences</button>

</form>

<script>

const form = document.getElementById('preferencesForm');

const theme = document.getElementById('theme');

const language = document.getElementById('language');

const notifications = document.getElementById('notifications');

form.addEventListener('submit', (e) => {

e.preventDefault();

const preferences = {

theme: theme.value,

language: language.value,

notifications: notifications.checked

};

localStorage.setItem('preferences', JSON.stringify(preferences));

alert('Preferences Saved!');

});

window.onload = () => {

const preferences = localStorage.getItem('preferences');

if (preferences) {

const { theme, language, notifications } = JSON.parse(preferences);

theme.value = theme;

language.value = language;

notifications.checked = notifications;

}

};

</script>

**Key Requirements:**

* Debug and fix the script so all functionalities work as expected.
* Ensure theme changes dynamically upon saving preferences.

**Submission Guidelines:**

* Submit your Masai Git directory link with the solution.
* Include detailed comments explaining the fixes made.