Assignment: Homework 7 - Object Model, Cookies

- Due Tuesday by 11:59pm
- Points 15
- Submitting a text entry box or a website url
- Available Nov 12 at 5am - Dec 13 at 11:59pm

Homework 7 - Object Model and Cookies

What you will do:

- Create a web page for the Homework 7 with the following:
  - a heading "Homework 7 - Object Model and Cookies".
  - include a hyperlink to PART 1
  - include a hyperlink to PART 2
  - a separated hyperlink that will simply take the user to the main page of the course (Homework 1)

DO NOT USE ALERTS OR PROMPTS FOR MESSAGES, OR REQUEST INPUT FROM THE USER, OR OUTPUT/RESULT!!!

For Part 1:

- Create a webpage for part 1 with
  - a heading of your choice
  - a div, or a main tag with at least 3 paragraphs and that will be the area to be used to apply the styles chosen by the user
  - a form with:
    - radio buttons for the user to select the color of the background to be applied (you should have at least 2 different colors for the user to choose from)
    - checkboxes that will allow the user to choose "underline", and/or "bold", and/or "italic" - remember that HTML checkboxes allow the user to choose one or more options
    - a select element to create a drop-down list where you will allow the user to select the font-size to be applied (at least 3 different font-size should be listed and preferably in em, or rem, or % units)
    - there should be no button to clear the choices, neither a button to submit the information - when the user selects a style, that style will be applied right away
  - a hyperlink so the user can go back to the page of Homework 7
- You will write a script that will do the following:
  - As the user starts selecting the styles available (from the radio buttons, or from the checkboxes, or from the select (drop-down list)), you will apply the selected style to the area mentioned above (div or using the <main> tag)
    IMPORTANT NOTES:
    Remember that if the user checks a certain checkbox and later the user unchecks it, you will need to remove the style that was unchecked from the div (or main) area where the style(s) is(are) being applied.
    The styles should be added as the user keeps selecting/checking the styles from the form you provided - this means that if the user checks the radio button with a color for the background

and checks the bold of the checkbox group, both of these styles should be applied - **it's not only applying the last style chosen!**
You could never use a group of checkboxes to allow the user to choose different font-sizes because when a user sees a checkboxes, by default, you can check one or more boxes, right? This means that it would be impossible to apply two different font sizes at the same time. This type of selection would be more appropriate by using a group of radio buttons!

For Part 2:

- Write a web page with a script that will save **TWO** pairs of cookies for the same page - one of the pairs for the name of the user and another one for the username of the user.
  TIP: The example from the lecture can be used, just remember that here you will be working with 2 pairs when setting your cookie, instead of only 1 pair!
  ANOTHER TIP: The history.go(0) does not necessarily start a new session in the technical sense but forces a FULL PAGE RELOAD FROM THE SERVER or the browser cache. It might be a good idea to use path and expiration date when registering the cookie!

- Both cookies should be deleted when the user **closes the browser (not simply closes the tab/window)** this means closes the session.

- So, how this page should work?

  - If it is the first time the user is opening the page on the browser, you will present a form for the user to type his/her name and his/her username.

  - If it is not the first time the user is opening the page (if he/she is revisiting the page) while the browser is still opened, you will just display a message of Welcome Back followed by **the name** of the user that you will retrieve from the cookie previously saved.

  - The **main focus should be that your cookie is registered and that you can read from it** - I will not bother if I have to manually delete the cookie myself because browsers have changed to increase security and some will not allow you to register cookies without expiration date and/or path.

To submit your homework:

1. Create the page for Homework 7 as specified at the top
2. Create the pages for Part 1 and Part 2 as specified above
3. Update the main page of the course - Homework 1 - to include a hyperlink to Homework 7
4. Upload all created and updated pages to the web server
5. Open the browser and test the URL of your Homework 1 (main page of the course) to make sure that the link to Homework 7 is working and then make sure that the links to Part 1 and Part 2 are working from the Homework 7 page
6. If everything is ok, submit the URL of your Homework 1 (main page of the course) and from there I should go to the Homework 7 page to evaluate your work!

Checklist for grading:

1. All your pages show in the browser with no errors such as NOT FOUND or FORBIDDEN, you submitted the URL to your Homework 1 page with the link to this assignment updated - **1 point**

2. The scripts are working as requested (styles being applied correctly in Part 1 and Part 2 the cookies are working (being stored and retrieved correctly) as requested and the pair of cookies is being removed when the user closes the BROWSER - **12 points** (6 points for each part)
3. The user interface/user experience is clear, the user can easily understand what needs to be done and you provided good navigation to at least go back to the main page of the assignment - **1 point**
4. All pages have valid HTML & CSS - **1 point**