Assignment 7

1. Go to the assignment_7_home.html file in your editor. Add your name and the date to the files. Within the head section, place a script element that links to the assignment_7_timer.js file. Make sure the script file loads after the webpage finishes loading by using defer.

   • Take some time to examining the contents and structure of the document, paying particular attention to the id attributes assigned to various elements on the page.

   • Save the changes you have made to the document.

2. Open the file assignment_7_timer.js and do the following tasks.

   • At the top of the file, insert a statement that instructs the browser to enforce strict usage of the JavaScript code contained within the file.

   • Directly above the function nextJuly1(), insert a new function named displayclock() without any parameters. Within this displayclock() function, follow below steps.

     o Declare a variable called thisDay to store a Date object representing the current date by using the Date() constructor.

     o Create a variable named localDate, which holds the date from thisDay in local format. Also, define another variable called localtime that stores the time from thisDay using local conventions (Hint: use the toLocaleDateString() and toLocaleTimeString() methods).

     o Inside the inner HTML of the page element with the ID currentTime, insert the following code: datetime, where date and time are the respective values of localDate and localtime.

     o Call the provided function nextJuly1(), passing thisDay as the argument, and store the returned date in the j1Date variable.

     o The countdown clock should count down to the event date. Apply the setHours() method on the j1Date variable to set the hours to 9 p.m. (Note: Represent 9 p.m. using 24-hour time format).

     o Create variables named days, hrs, mins, and secs to hold the corresponding countdown values until 9 p.m. on the upcoming 1st of July with:

       ▪ days = (j1Date - thisDay) / (1000 * 60 * 60 * 24)
       ▪ hrs = (days - Math.floor(days)) * 24
       ▪ Try to think how to calculate the values of mins and secs

     o Update the text content of the elements with IDs "dLeft," "hLeft," "mLeft," and "sLeft" to reflect the integer values of days, hrs, mins, and secs, respectively, rounded down to the nearest integer.

   • Immediately after the opening comment section (/* Run and display the countdown clock */) in the file, include a command to call the displayclock() function.

   • Right after the command that calls the displayclock() function, insert a command that runs the displayclock() function every second (Hint: use setInterval).

   • Save your modifications to the file.

3. Launch the assignment_7_home.html file in your web browser. Confirm that the page displays the current date and time. Furthermore, verify that the countdown clock shows a countdown until the event begins. Observe the countdown clock changing every second, accurately indicating the time left.

4. Compress ALL the HTML, CSS, JS, and image files as a single zip/rar file with the name assignment_7_name_id.zip/rar where name is your first name and id is your student if and submit it to Canvas.

Result for your reference: