Lab 7 - Math Object, Date Object & JS Timers (3%)

Part 1: THE FINAL COUNTDOWN (1%)

REQUIREMENTS: Using lab7-1-countdown.html/css/js...

Create the JavaScript to display today's date, the Final Project due date and the number of days until the due date.

Section A due: Dec 16, 11:59pm / Section B due: Dec 15, 11:59pm

- 1. Create variables for now, and for the due date.
- 2. Convert to milliseconds and subtract to get the time difference.
- 3. Convert this to days (no decimals).
- 4. Send output to the appropriate html page elements.
- 5. If the deadline has passed, the user will see that the last paragraph has changed to say, "The Deadline for the Final Assignment has passed!"

Part 2: STOP TIME (1%)

REQUIREMENTS: Using lab7-2-clock.html/css/js...

Create the JavaScript to display the current time when START is clicked and updates every second so that it looks like a digital clock.

- 1. Create variables for hours, minutes & seconds.
- 2. Create an interval variable that is activated when start is clicked.
- 3. When START is clicked, the user will see the current time display, then update every second.
- 4. The STOP button should stop the timer but not clear the display.
- 5. If start is re-clicked, the user will see the current time updated every second.

HINT: Not counting the *onload* function, you will need to create 3 functions for this: displayTime, startClock, & stopClock.

EXTRA CHALLENGE FOR PART 2: User-friendly Display (1%)

The user will always see two digits displayed for the values - so that '8:4' gets displayed as '08:04'. Make a function for this.