Sheet #4 - Using Functions, Conditionals, Loops and Arrays
FAA Pilot Quiz: (exercise derived and modified from Gosselin text)

Part 1

Purpose: To create an interactive multiple-choice quiz for the Federal Aviation Administration.   This quiz is administered to all prospective pilots who wish to have a license to fly a private plane.

1. A copy of the quiz, in HTML format, is available to you as a starting point. You will notice that the correct answer is indicated inside a comment for each question.
2. Create an internal script to correct the quiz. To do this, each radio button will need a click event to call a function (handler function) for that particular question, passing in the answer the pilot gave. Create individual functions in the internal script to perform this step.
3. The function should immediately display a message to the pilot, using a pop-up, indicating whether they answered correctly or not. You should have 5 functions (each with an **if/else** structure).
4. Test your script thoroughly to make sure each question gets marked correctly.

Get this step checked off before continuing.

Part 2

1. Optimize your script by changing your 5 functions into 1 function which will accepts two parameters, the question number and the answer provided by the pilot.
2. Use switch/case structure. Your case structure should determine which question was selected, and then inside each case there should be an if/else structure to inform the pilot whether they got the question right or wrong.

Test your script thoroughly before getting this step checked off.

Part 3

1. Optimize your script one more time by using an array to hold the answers that the pilot gives.   This array should be filled by the click event of the radio button.
2. Create a second array to contain the correct answers. This time do not offer an immediate response to the pilot as to whether they selected the correct answer or not.
3. Add a button, labeled "Score", to the bottom of your page.   When the button is clicked display the pilot's score in a pop-up.
4. Do not tell the pilot which questions were answered correctly just how many were answered correctly (for example, "You got 4 out of 5 questions correctly.").
5. Use a loop to compare the two arrays to determine if the pilot was correct or not.

Test your script thoroughly before getting it checked off for the last time.