Assignment #1 – Hi-Lo in JavaScript and HTML

Who:

This assignment is to be done individually.

Description:

This is an individual assignment. You will write an application as part of an HTML file that will play a typical *Hi-Lo* game, where the player guesses values in a specific range until the correct number is found.

Objectives:

- To practice writing HTML and JavaScript functions
- To use some of the events supported by the Document Object Model
- Become familiar with client-side validation and feedback techniques

Requirements:

- 1. The entire application must be written in **one HTML page** using only JavaScript and HTML.
- 2. When the page loads, the user is asked for his/her name in a prompt.
- 3. After the name is entered, the user (by name) is asked for the *maximum guess* number
 - a. The Hi-Lo game will allow the user to guess between 1 and this maximum guess value.
- 4. Your Hi-Lo game must create a random integer between 1 and the maximum guess number
- 5. The following must be components of the main *runtime* User Interface:
 - a. A prompt and textbox to allow the user to enter the guess
 - b. A button to submit a guess
 - c. A message that informs the user about their last guess. It states the new range for a new guess (in other words, as the user guesses, and the number is too high or too low, a message changes the allowable high or low value appropriately so you don't have to remember the range)
 - d. When the guess is correct, change the background colour of the page and show an alert with an appropriate message.
 - i. At this point, show a "Play Again" button and reset your page to do it again
 - ii. Only this time you don't need to prompt the user for their name.
- 6. Make sure that all data entered is validated for proper data type and in some cases proper data ranges/values
 - a. Remember that the objective of the code is to create a workable Hi-Lo game
 - b. Also remember that giving the user timely feedback is a mandated usability factor

Hand in:

- 1. The final HTML page
- 2. Make sure you comment appropriately, especially the header comments
- 3. When submitting your HTML to the drop-box, please ZIP it up first

WDD – PROG2000 Due Date : Sept. 23, 2015 Fall 2015 (by 11:00pm in eConestoga drop-box)