Assignment #1 – *Hi-Lo* in JavaScript and HTML

Objectives:

- To practice writing JavaScript functions
- To use some of the events supported by the Document Object Model

Description:

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

Requirements:

- 1. The entire application must be written in **one** HTML page using 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 is asked for a maximum number to be the upper range of the random number the computer creates.
- 4. The application must create a random integer between 1 and the number entered in Step 3 above.
- 5. The following should be components of the User Interface:
 - a. A textbox to enter the guess
 - b. A button to submit a guess
 - c. A message that 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 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.
- 6. Make sure that all data entered is validated for proper data type.

Hand in:

- 1. The final HTML page
- 2. Make sure you comment appropriately, especially the header comments