CMPS 290 - Spring 2024
Programming Assignment #1

For this assignment we will be just doing a simple guess the number game. During the exercise we'll assume we have two players that won't be seeing each other's input (although realistically we will always see it all). We will start by allowing Player 1 to enter a whole number for the other player to try and guess. Player 2 will then attempt to guess the number, and your program will give feedback on whether their guess is too high, too low, or correct.

Requirements:

- Place comments in your program. Include your name, date, and a short description of the program at the top of it.
    - Continue to comment your code as necessary. Remember we want to be able to come back to this later and remember what we did!
- Assume the users know what to input as we don't have the ability to print strings yet.
    - You can still make simple prints using individual characters for now.
    - See my sample for some simple ideas.
    - Do not worry about attempting to print full strings at the moment.
- Let the game continue until player 2 has the correct value.
- You'll need to make sets of statements equivalent to high level structures such as conditional statements and loops.
- Don't worry about creating actual strings yet, use short sets of characters to get your information across. A simple + or - is sufficient for example.

Hints:

- The ASCII Table will help a lot with formatting and printing. Remember we can use the decimal value, the escaped character version, or a properly formatted hex version to represent the number.
- The first lab can be a good resource for going back to how to print properly.
- Remember to keep it simple, you don't need anything more than what we have gone through so far.
- Your output does not need to match mine exactly, you could make it two vertical columns for instance instead of two rows, but the formatting must remain readable and understandable.

Submission:

- Save your work as p01LastNameFirstName.asm (p01McNultyMatt.asm as an example for mine) and upload only that file to Canvas before the due date and time. You may leave your work as a draft as that will allow you to change the file you uploaded should you notice a problem or upload the wrong file. However, keep in mind, I will only see the time of the final file upload so please check your file as soon as you upload it. By submitting a file to be graded, whether draft or fully submitted you are agreeing to the academic dishonesty policy as outlined in the syllabus.

Sample Outputs: (Note: user input is bold and underlined for readability. This is not something your program needs to do.)

Run #1:

P1: **50**

P2:
50

Yes!
-- program is finished running –

Run #2:

P1: **64**

P2:
32

Low
80

High
50

Low
75

High
65

High
60

Low
63

Low
64

Yes!
-- program is finished running –