**Exercise 2**

**Assignment Specification**

**Description**:

This assignment has two parts: a testing design exercise and a python program.

**Part 1**. Testing Design:

* + Determine a set of inputs that will adequately test the Python program you are writing.
    - It should be minimal: try not to have duplicate tests
    - Be sure to cover all the cases/alternatives
  + Create a .doc/.pdf document detailing the testing steps from the Testing Design above.

**Part 2**. Python Program

Write the program as a loop to prompt the user for input, checking it and printing the proper message, until the user inputs ‘done’ (without quotes).

**Input**: The user will be prompted for a password to be validated. They will enter the word ‘done’ (no quotes) to finish.

Enter a password with the given characteristics, or ‘done’ (without quotes) if you are finished:

* + [ user input; examples: *abc123ft, done*]

**Output**: Print the proper messages, based on the input.

* + Examples:
    - Password accepted!
    - Goodbye!

**Procedure**:

1. Print the request for the password and its required characteristics, that are:
   1. Minimum length: 5
   2. Maximum length: 12
   3. Any combination of numerical and alphabetical characters (either small or capital letters)
2. Prompt the user for a password
3. If the user enters ‘done’ (without quotes), print goodbye and stop
4. Check if the password requirements have been applied. Provide different messages for the different errors. The message will be "*Errors in your password, including* " followed by the condition generating the error (e.g.: "*non minimum length*"). If multiple errors occur, use any of them
5. If the user enters an acceptable password, print " Password accepted!".

Submit your .doc/.pdf document (for the Test-Driven Design part) and your program (.py document) via Canvas