Programming Assignment #4

Using C++ character functions, write a C++ program using a function that allows you to input from the keyboard, and check the validity of a string to meet the following conditions. (Note: if string does not meet the following criteria, you must prompt the message

"Attempt number x. You have y attempts remaining."
(Where x is the number of incorrect attempts, and if exceeds three, terminate process and y is the number of attempts remaining.)
"String "entered string" invalid, please try again…"

Criteria

1. Must be eight (8) or more characters.
2. Must have at least two (2) digits.
3. Must not contain any whitespaces
4. Must have at least two uppercase letters

Once a valid string has been entered, display the valid string and the message "String has been entered successfully."

Next you are to create a function that would allow you to enter a string in the following format: "LLlNNNNL". Validate the string. (Note: if string does not meet the following criteria, you must prompt the message

"Attempt number x. You have y attempts remaining."
(Where x is the number of incorrect attempts, and if exceeds two, terminate process, and y is the number of attempts remaining.)
"String "entered string" invalid, please try again…"

Then create functions that will allow the user to:

1. Input a sentence of no more than 80 characters,
2. Output the original sentence,
3. Process the sentence (convert to pig Latin),
4. The output the sentence in pig Latin.

Words beginning with at most one consonant.

Sample input: Have a nice day.
Sample output: Avehay aay icenay ayday.

* *

Words beginning with multiple consonant.

Bonus:

Sample input: Strange groups are bringing trouble to the class.
Sample output: Angestray oupsgray areay ingingbray oubletray otay ethay assclay.

PIG LATIN
To form the Pig Latin form of an English word the first consonant (or consonant cluster) is moved to the end of the word and an *ay* is affixed (for example, *pig* yields *ig-pay* and *computer* yields *omputer-cay*).