Homework #3

Due Thursday by 6:30pm   **Points** 42   **Submitting** a file upload
Available Feb 2 at 9:30pm - Feb 9 at 6:30pm 7 days

Write a program that takes a 3 word phrase and then converts the words to Pig Latin.

To review, Pig Latin takes the first letter of a word, puts it at the end, and appends "ay". The only exception is if the first letter is a vowel, in which case we keep it as it is and append "hay" to the end.

E.g. "boot" → "ootbay", and "image" → "imagehay".

There are many more Pig Latin rules, but for this homework this is sufficient.

Define a GLOBAL list at the top of your code file called VOWELS. This way, you can check if a letter x is a vowel with the expression x in VOWELS. Remember to get a word except for the first letter, you can use word[1:].

It's tricky for us to deal with punctuation and numbers with what we know so far, so instead, ask the user to enter only 3 words and spaces. You need to convert their input from a string to a list. Also convert the 3 word phrase to all lower when doing comparisons against the vowels list.

Using a list of words, you can go through each word and convert it to Pig Latin by calling the function ConvertWordToPigLatin. Make sure you have a check in your code that it only converts lists that are of length 3 to Pig Latin.

Break all the tasks into functions. Should have functions that: reads user input with name AskUserForSentence, lowercases the sentence called LowercaseSentence, splits the phrase called SplitSentenceIntoList, converts the word to pig latin called ConvertWordToPigLatin and prints out the 3 word phrase in pig latin called PrintThreeWordPhrase.
 Remember, using functions makes your code much more re-usable, readable and clean.

Once you have your program working, make it interactive such that it keeps translating 3 word phrases into pig latin until the user enters in the phrase QUIT.