Lab Exercise #3

Assignment Overview

This lab exercise provides practice with strings and functions in Python.

You will work with a partner on this exercise during your lab session. Two people should work at one computer. Occasionally switch the person who is typing. Talk to each other about what you are doing and why so that both of you understand each step.

Programming with Strings

Develop a Python program which will convert English words into their Pig Latin form, as described below.

The program will repeatedly prompt the user to enter a word. The word will be converted to Pig Latin using the following rules:

a) If the word begins with a vowel, append "way" to the end of the word.
b) If the word begins with a consonant, remove all consonants from the beginning of the word and append them to the end of the word. Then, append "ay" to the end of the word.

For example:

"dog"	becomes	"ogday"
"scratch"	becomes	"atchscray"
"is"	becomes	"isway"
"apple"	becomes	"appleway"

The format of the output should be like the example above (double quotes for original and Pig Latin words. Allocate 15 spaces for original word, shift it to left, the word "becomes", and finally allocate 15 spaces for Pig Latin word, and shift it to right).

The program will halt when the user enters "quit" (any combination of lower and upper case letters, such as "QUIT", "Quit" or "qUIt").

Suggestions:

a) Use slicing to isolate the first letter of each word.
b) Use slicing and concatenation to form the equivalent Pig Latin words.
c) Use the `in` operator and the string "aeiou" to test for vowels.

★ **Demonstrate your completed program to your TA. On-line students should submit the completed program (named "lab03.py") for grading via the CSE handin system.**