

COSC2429 Intro to Programming

Lab 10: Dictionaries

Objective: At the end of this lab, you will be able to use dictionaries to solve a number of problems.

1. The attached file **eng2pirate.txt** is a text file which stores the English to Pirate translations for a number of English words. Write a program that asks the user for a sentence in English (only using English words in that file) and then translates that sentence to Pirate.
2. Write a program called **alice_words.py** that creates a text file named **alice_words.txt** containing an alphabetical listing of all the words, and the number of times each occurs, in the text version of Alice's Adventures in Wonderland. (You can obtain a free plain text version of the book, along with many others, from <http://www.gutenberg.org>) The first 10 lines of your output file should look something like this:

Word	Count
a	631
a-piece	1
abide	1
able	1
about	94
above	3
absence	1
absurd	2

3. Extend the above program to answer the following questions:
 - a. How many times does the word **Alice** occur in the book?
 - b. What is the longest word in the book?
 - c. How many characters does the longest word have?