Instructions

Although there are two questions for the first assignment, this specification describes only the second question. For this question you will be submitting your solution as a single file containing source code written in Python 3. This file should NOT be compressed into a "zip" file (since it is only one file), and you will submit this file using cuLearn.

- ***The Python source file (i.e., the .py file) for Question 2 (of 2) must be named "XXXXXXXXX-a1q2.py", where XXXXXXXXX is your 9-digit student number. If you do not name your file correctly the teaching assistants will be unable to mark it.***
- ***The due date for Question 2 (of 2) is October 1, 2016, by 11:30pm.***

♦

Late assignments will be accepted for 48 hours after the deadline, but the penalty for submitting a late assignment is a loss of 2.0% per hour.

♦

You are expected to demonstrate good programming practices at all times (e.g., choosing descriptive variable names, provide comments in your code, etc.) and your code will be penalized if it is poorly written.

♦

You are expected to do the necessary preparatory work (e.g., devising an algorithm) before you begin coding. Whenever appropriate, you will be asked to present either pseudocode or a flowchart before you will receive any assistance from the instructor or a teaching assistant.

♦

This assignment is uniquely generated; every student in the class is required to complete a slightly different version of this assignment. To ensure that each unique assignment shares the same level of difficulty, a unique assignment generator (and supporting files) has been made available on cuLearn.

To receive the assignment instructions that are specific to you, download the "unique-assignment-generator-for-A1.zip" file from cuLearn. Once you have extracted the contents to your working folder, use the command prompt to run the "generator-for-A1.py" program and then enter and confirm your student number.

Question 2 (of 2)

When you ran the unique assignment generator for this assignment, the program also provided you with the conversion values for a pair of uncommon units of measurement. For the second question of this assignment you will create a program that converts between these units.

As a clarifying example, the assignment generator might provide (in sentence form) the following pair of conversion values:

one jiffy is equivalent to 0.01 seconds
one dog year is equivalent to 4492800 seconds

Your program would then be expected to ask the user for a number of jiffies, convert that value into an equivalent number of dog years, and then ask the user for a number of dog years and convert that value into an equivalent number of jiffies.

The conversion values provided by the assignment generator should be considered accurate to six decimal places. It is also crucial to note that your submission must use the values provided by the assignment generator - do not attempt to research or compute different conversion values for the units you have been assigned.

To clarify, a resource online might specify the number of seconds in a dog year to be 4493000, but if you use this value instead of the one you have been provided, your program will be considered incorrect.