## **Assignment 1**

## **Problem 1**

Transcribe into ARPAbet symbols each of the following (note: if there is more than one pronunciation of the word, give ARPAbet pronunciations for the multiple pronunciations):

- (a) monosyllabic words: why, what, how
- (b) bi-syllabic words: family (pronounced as a 2-syllable word), welcome
- (c) tri-syllabic word: family (pronounced as a 3-syllable word)
- (d) sentence: My name is Fred.

## **Problem 2**

- (a) Write out the phonetic transcription for the following words: /she/, /eats/, /some/, /meat/
- (b) What effect occurs when these four words are spoken in sequence in a sentence? What implication does this have for speech segmentation of a sentence into words?

## **Problem 3**

Write a Python command line application to syllabify your English pronunciations using ARPABET syllabification. It will take an ARPABET transcription in array or string form and return a list with the syllables chunked. The minimum is for 100 predefined words. You can also consult CMU dictionary as in:

http://svn.code.sf.net/p/cmusphinx/code/trunk/cmudict/cmudict-0.7b

Make sure to validate the command line input and maintain it to find the resulted word.

Example:

Input: /W/ /AY/ Output: Why