Lab Practice 2: Language Modeling

1. Using bigram.py and the given corpus compute:
   a. The number of bigrams in the corpus
   b. ٢٠ most frequent bigrams in the corpus
   c. List of the words that can follow after "my".
   d. Compute Maximum Likelihood Estimation-based probability distribution for "my"
   e. Compute the probability of a pairs of part b
   f. Compute the probability of the sentence "how do you do" using bigram model and use add-1 smoothing for zero cases.
      - Add some more sentences for test here

2. **Optional:** Implement **good Turing smoothing and use it for smoothing.**

You need to use NLTK brown corpus is provided for this assignment.