Modelling of HMM on Train Set

1. Extracted all sentences of training set.

2. Counted all the pairs of states in a sentence and saved it in hashmap.

3. Counted all the observation given the state from sentence and saved it in hashmap.

4. Calculated the transition probability using step 2 and saved it Hashmap

5. Calculated the observation probability using step 2 and # and saved it in Hashmap.

6. The words which do not appear, the probabilities have been taken it to very less value i.e average approximation has been taken. 1/24 \* 12297 = 0.0000033

Error Rate

Accuracy Rate 0.9324758172114743

Error Rate 0.06752418278852568

Accuracy Percentage 93.24758172114743

Error Percentage 6.752418278852568