**Assignment 4 - HMM**

1. Write a python code to find the probability of word sequence for a part-of-speech sequence.

2. Display the possible combinations (brute-force) and its probability value.

3. Implement Viterbi to find the maximum probable POS tag sequence

The following sentences can be used to find the transition and emission probabilities.

* *It/PRP looks/VB like/IN circle/N*
* *He/PRP like/IN chocolate/N*
* *I/PRP like/VB chocolate/N*

The following sentence can used to find the maximum probable POS tags

*‘It looks like chocolate’*

**Link to upload:**

<https://amritavishwavidyapeetham-my.sharepoint.com/:f:/g/personal/s_sachinkumar_cb_amrita_edu/Eoghopg5N6xOojw42SJG9ToBUqG5q_heeINNQg3EJt90ew>

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