from Zipfile . Import zipfile. Pomport glob. amport ritk. Import gardus as pd. from WFK. Impost. from nitk. Corpus Emport Stopwords. stop-words = Set (stopwords. Words (lenglish')) nItk. download (averaged-perceptron-tagger) i) file: [tile for tile in glob. glob/imaries[*/)] for the in files [: I]: with open (files [-3], ir', encouring = (p1252) as d: cont=f.read() . PRA+ (Lount) @ (1) from nitk, tokerise import sent-tokenize. Stesent-folknize (Cont) len(st) (b) from nikk, to kenize. import word-tokenize. tokenizer & Mtb. fokenize. Whitespacetokenizer () tok = · fokenizer. tokenize (count) (en (tok)

Natural Language Processing Lab Lab8. Exploring POS of Large Text Files

EXERCISE-1

- 1. Open any movie file from your movies sub directory.
- 2. Tokenize your movie file and print the following
 - a. How many sentences in the file?
 - b. How many words in the file?
 - c. What are the top 10 words and their counts?
 - d. How many different POS tags are represented in this file?
 - e. What are the top 10 POS tags and their counts?
 - f. How many nouns in the file?
 - g. How many verbs in the file?
 - h. How many adjectives in the file?
 - i. How many adverbs in the file?
 - j. What is the most frequent adverb?
 - k. What is the most frequent adjective?

```
· tokpas: Frequist (tagged)
   fokpas. most - common(10)
         Ra in tokpos. tomus():
          (word, pos) = ?.
           P) pos = = 'NN', or pos = = 19445', or pos== hump)
              not
      beint (u)
How many vexts in the file:
       VEO f. gn tokpos. keys()
          (word, pos) = P.
          Py pos == 'VB'.or pos== 'VBP', or pos=='VBP'
             Or bos = = 1/BZ/;
                14=1
       point(v)
 h. How many adjectivies in the file?
       adj = []
        for P. In Coxpos. pegs ();
           (word, pos) = P.
             P( pos = = JR1. or pos = = 17751.
        lon (adf) append ?.
```



NOTES

DEPT OF DATA SCIENCE IBISHOP HEBER COLLEGE | TRICHY

DR. R. RAJKUMAR