ASSIGNMENT 4

Answer 1:
The list of sentences with their parse trees.
The output is stored in a file with total no. of parse trees of each sentence.

Answer 2:
The no. of the parse of the sentence:
what flights leave las vegas to oakland .

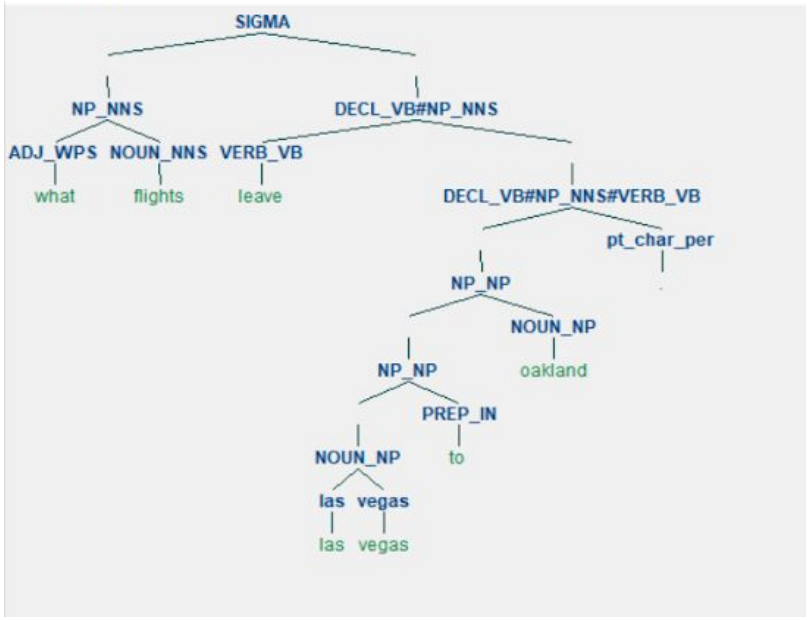
The bracketed parse tree

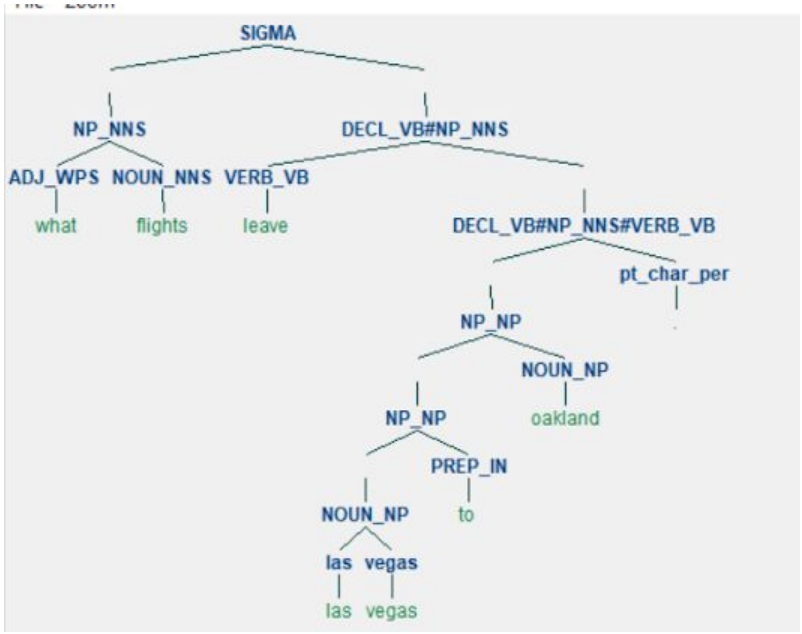
'(SIGMA((NP_NNS(ADJ_WPS what) (NOUN_NNS flights))) ((DECL_VB#NP_NNS(VERB_VB leave) ((DECL_VB#NP_NNS#VERB_VB((NP_NP(las las) (vegas vegas))) ((DECL_VB#NP_NNS#VERB_VB#NP_NP((PP_NP(PREP_IN to) (NOUN_NP oakland))) (pt_char_per .)))))))'

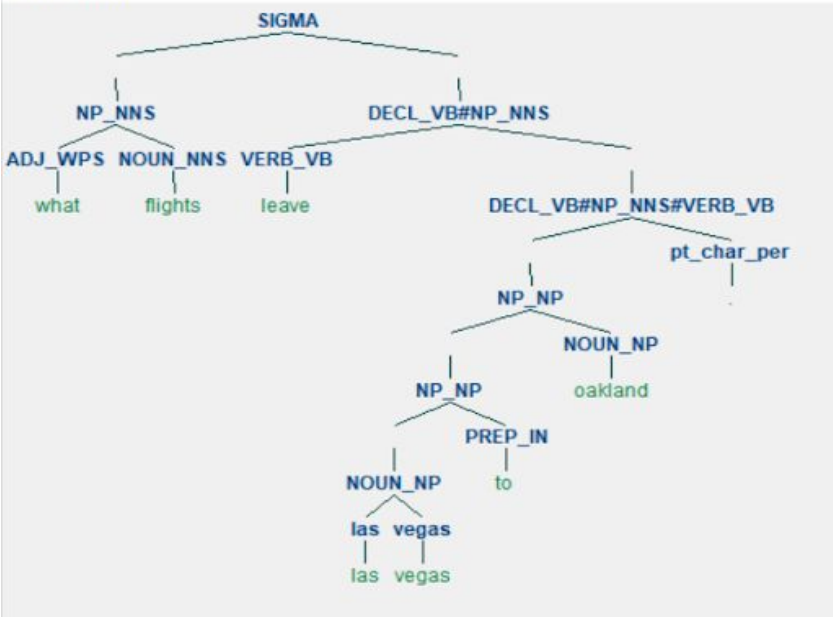
'(SIGMA((NP_NNS(ADJ_WPS what) (NOUN_NNS flights))) ((DECL_VB#NP_NNS(VERB_VB leave) ((DECL_VB#NP_NNS#VERB_VB((NP_NP((NP_NP((NOUN_NP(las las) (vegas vegas))) (PREP_IN to))) (NOUN_NP oakland))) (pt_char_per .))))))'

'(SIGMA((NP_NNS(ADJ_WPS what) (NOUN_NNS flights))) ((DECL_VB#NP_NNS(VERB_VB leave) ((DECL_VB#NP_NNS#VERB_VB((NP_NP((NOUN_NP(las las) (vegas vegas))) ((PP_NP(PREP_IN to) (NOUN_NP oakland))))) (pt_char_per .))))))'

The draw method parse tree







To run the parser for a single sentence we have to give the line no. of the sentence from the training_set.txt file of atis dataset. Run the file BackupGrammer.py.

To run the parser for all the sentence we will run the file BackupGrammer1.py file.