Practical 8

Name: Shivam Tawari Rall no: A-68 Subject: NLP Ain: Write a pythan program to check grammer in given reptence. Theory: Using the NLTK we need to build a program to check the accuracy of English grammar in given sentence using content for. grammor in given dentence using grammas councepts. we need to write a proper content free language for 6 English Gramman' which doesn't have ambiguity New in order to make a sentence go through our contact free grammas and give output as ecoused deautieus, and base these 15 the sentence is grammetically consect else inconsect.

Me sedifice NTK to basse Geomeores and check whether the implica dentence can be cogned using grammas as not. We also need coolece module that is gos converting text between diff- representation we use reassure doorn't parse which is top down por passox. with english sentence including post correct and incorrect. And then you can identify have code words for both situations. Candusian: thence we have implemented the in Alven septence

Practical 8

Name: Shivam Tawari

Roll no: A-58

Practical 8

Name: Shivam Tawari

Roll no: A-58

```
[ ] import nltk
import codecs

[ ] import nltk
import codecs
load_grammar = nltk.data.load('file:englishGrammer.cfg')
file_input = codecs.open('input.txt', 'r')
for sent in file_input:
    wrong_syntax=1
    sent_split = sent.split()
    print("\n\n"+ sent)
    rd_parser = nltk.RecursiveDescentParser(load_grammar)
    for tree_struc in rd_parser.parse(sent_split):
        s = tree_struc
        wrong_syntax=0
        print("\n Correct Grammer !!! \n")
        print(str(s))
```

```
print("\n Correct Grammer !!! \n")
 [ ]
              print(str(s))
              f = open("demoEnglish.txt", "a")
              f.write("\nCorrect Grammer!!!!! \n")
              f.write(str(s))
              f.close()
          if wrong_syntax==1:
              print("\n Wrong Grammer!!!!!! \n")
              f = open("demoEnglish.txt", "a")
              f.write("\n Wrong Grammer!!!!! \n")
              f.close()
      i saw raj
       Correct Grammer !!!
      (S
        (NP Pl (PropN Pl i))
        (VP_Pl (TV_Past saw) (NP (NP_Sg (PropN_Sg raj)))))
      raj ate an apple
       Correct Grammer !!!
ן shivam like apple
     Wrong Grammer!!!!!
    good child happily walked
     Correct Grammer !!!
      (NP_Sg (Adj good) (N_Sg child))
      (VP_Sg (Adv happily) (IV_Past walked)))
    i walks
     Wrong Grammer!!!!!
    innocent boys like all dogs
     Correct Grammer !!!
     (S
      (NP_Pl (Adj innocent) (N_Pl boys))
```

```
they shot an elephant

Correct Grammer !!!
(S
    (NP_Pl (PropN_Pl they))
    (VP_Pl (TV_Past shot) (NP (NP_Sg (Det_Sg an) (N_Sg elephant)))))
these girl likes cars
Wrong Grammer!!!!!!
```