PROGRAM NO : 21

AIM : Write a python program for Natural Language Processing which performs chunking

PROGRAM

```python
import nltk
nltk.download('averaged_perception_tagger')
sample_text="""
Rama killed Ravana to save Sita from Lanka.The legend of the Ramayan is the most popular Indian epic.
A lot of movies and serials have already been shot in several languages here in India based Ramayana"""

tokenized=nltk.sent_tokenize(sample_text)
for i in tokenized:
    words=nltk.word_tokenize(i)
    tagged_words=nltk.pos_tag(words)
    chunkGram=r"""VB: {}"""
    chunkParser=nltk.RegexpParser(chunkGram)
    chunked=chunkParser.parse(tagged_words)
    print(chunked)
    chunked.draw()
```

OUTPUT

```
C:\Users\ajcemca\PycharmProjects\pythonProject\venv\Scripts\python.exe "C:/Users/ajcemca/PycharmProjects/pythonProject/chunking 2.py"
(S
  Rama/NNP
  killed/VBD
  Ravana/NNP
  to/TO
  save/VB
  Sita/NNP
  from/IN
  Lanka.The/NNP
  legend/NN
  of/IN
  the/DT
  Ramayan/NNP
  is/VBZ
  the/DT
  most/RBS
  popular/JJ
  Indian/JJ
  epic/NN
  ./.)
(S
  A/DT
  lot/NN
  of/IN
  movies/NNS
```

```
(S
  A/DT
  lot/NN
  of/IN
  movies/NNS
  and/CC
  serials/NNS
  have/VBP
  already/RB
  been/VBN
  shot/VBN
  in/IN
  several/JJ
  languages/NNS
  here/RB
  in/IN
  India/NNP
  based/VBN
  Ramayana/NNP)

Process finished with exit code 0
```


NLTK

File   Zoom

Rama NNP killed VBD Ravana NNP to TO save VB Sita NNP from IN Lanka.The NNP legend NN of IN the DT Ramayan NNP is VBZ the DT most RBS popular JJ Indian JJ epic NN . .

NLTK

File   Zoom

A DT lot NN of IN movies NNS and CC serials NNS have VBP already RB been VBN shot VBN in IN several JJ languages NNS here RB in IN India NNP based VBN Ramayana NNP