PROGRAM NO : 20

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

PROGRAM

```python
import nltk
new="The big cat ate the little mouse who has after the fresh cheese"
new_tokens=nltk.word_tokenize(new)
print(new_tokens)

new_tag=nltk.pos_tag(new_tokens)
print(new_tag)

grammer=r"NP:{<DT>?<JJ>*<NN>}"
chunkParser=nltk.RegexpParser(grammer)
chunked=chunkParser.parse(new_tag)
print(chunked)
chunked.draw()
```

OUTPUT

```
C:\Users\ajcemca\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/ajcemca/PycharmProjects/pythonProject/chunking.py
['The', 'big', 'cat', 'ate', 'the', 'little', 'mouse', 'who', 'has', 'after', 'the', 'fresh', 'cheese']
[('The', 'DT'), ('big', 'JJ'), ('cat', 'NN'), ('ate', 'VBD'), ('the', 'DT'), ('little', 'JJ'), ('mouse', 'NN'), ('who', 'WP'), ('has', 'VBZ'), ('after',
(S
  (NP The/DT big/JJ cat/NN)
  ate/VBD
  (NP the/DT little/JJ mouse/NN)
  who/WP
  has/VBZ
  after/IN
  (NP the/DT fresh/JJ cheese/NN))
```