Experiment No 06: Chunking

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Aim : To implement the chunking with NLTK Toolkit

```
import nltk
```

```
nltk.download('punkt')
```

```
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data]   Package punkt is already up-to-date!
True
```

```
nltk.download('averaged_perceptron_tagger')
```

```
[nltk_data] Downloading package averaged_perceptron_tagger to
[nltk_data]     /root/nltk_data...
[nltk_data]   Package averaged_perceptron_tagger is already up-to-
[nltk_data]       date!
True
```

```
sentence = "the little white dog barked at the crowd"
```

```
grammar = ("NP: {<DT>?<JJ>*<NN>}")
```

```
chunkParser = nltk.RegexpParser(grammar)
tagged = nltk.pos_tag(nltk.word_tokenize(sentence))
print(tagged)
```

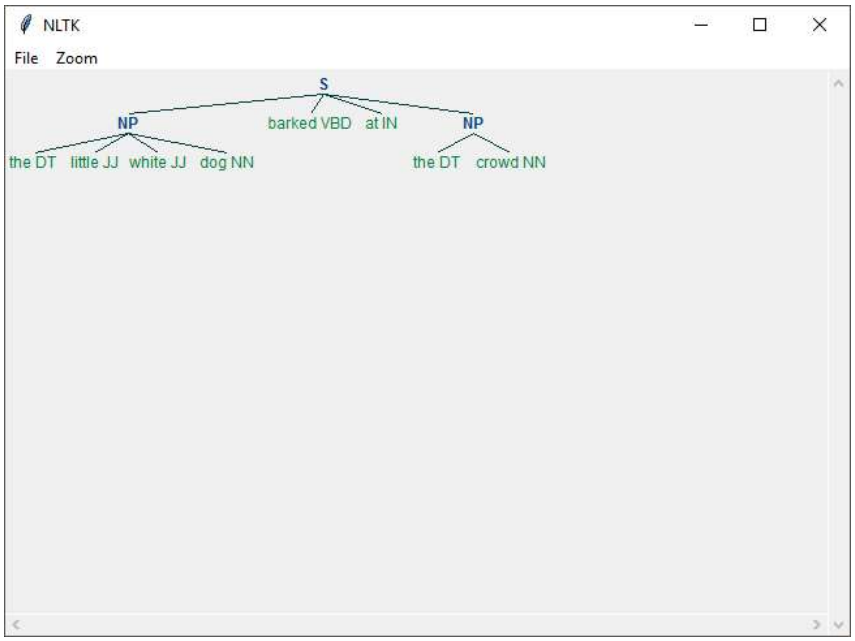
```
[('the', 'DT'), ('little', 'JJ'), ('white', 'JJ'), ('dog', 'NN'), ('barked', 'VBD'), ('at', 'IN'), ('the', 'DT'), ('crowd', 'NN')]
```

```
tree = chunkParser.parse(tagged)
```

```
for subtree in tree.subtrees():
    print(subtree)
```

```
(S
  (NP the/DT little/JJ white/JJ dog/NN)
  barked/VBD
  at/IN
  (NP the/DT crowd/NN))
(NP the/DT little/JJ white/JJ dog/NN)
(NP the/DT crowd/NN)
```

```
#tree.draw()
```



Conclusion:

We implemented the chunking with NLTK Toolkit , the desired output was obtained.