PROGRAM [14]:

```
import nltk
from nltk.tokenize import word_tokenize
from nltk import pos_tag
nltk.download('averaged_perceptron_tagger')
# Define sample text
text = """
Natural Language Processing (NLP) is a subfield of linguistics, computer science,
and artificial intelligence concerned with the interactions between computers and human
(natural) languages.
"""
# Tokenize text into words
words = word_tokenize(text)
# Tag parts of speech for each word
pos_tags = pos_tag(words)
# Print parts of speech tags
print(pos_tags)
```

OUTPUT [14]:

```
[nltk_data] Downloading package
averaged_perceptron_tagger to

[nltk_data] /root/nltk_data...

[nltk_data] Unzipping
taggers/averaged_perceptron_tagger.zip.

[('Natural', 'JJ'), ('Language', 'NNP'), ('Processing',
'NNP'), ('(', '('), ('NLP', 'NNP'), (')', ')'), ('is', 'VBZ'), ('a', 'DT'),
('subfield', 'NN'), ('of', 'IN'), ('linguistics', 'NNS'), (',', ','),
('computer', 'NN'), ('science', 'NN'), (',', ','), ('and', 'CC'),
('artificial', 'JJ'), ('intelligence', 'NN'), ('concerned',
'VBN'), ('with', 'IN'), ('the', 'DT'), ('interactions', 'NNS'),
('between', 'IN'), ('computers', 'NNS'), ('and', 'CC'),
('human', 'JJ'), ('(', '('), ('natural', 'JJ'), (')', ')'),
('languages', 'NNS'), ('.', '.')]
```