```
import nltk
  nltk.download('punkt')
  nltk.download('averaged_perceptron_tagger')
       [nltk_data] Downloading package punkt to
       [nltk_data]
                      C:\Users\Vedantika\AppData\Roaming\nltk_data...
       [nltk_data]
                     Package punkt is already up-to-date!
       [nltk_data] Downloading package averaged_perceptron_tagger to
                       C:\Users\Vedantika\AppData\Roaming\nltk_data...
       [nltk_data]
       [nltk_data]
                     Package averaged_perceptron_tagger is already up-to-
       [nltk_data]
                         date!
       True
  from nltk.chunk import RegexpParser
  from nltk.tokenize import word_tokenize
  sentence = "Educative Answers is a free web encyclopedia written by devs for devs."
▼ Tokenization
  tokens = word_tokenize(sentence)
  tokens
       ['Educative',
         'Answers',
        'is',
        'a',
        'free',
        'web',
        'encyclopedia',
        'written',
        'by',
'devs',
        'for',
         'devs',
        '.']
▼ POS tagging
  pos_tags = nltk.pos_tag(tokens)
  pos_tags
```

Chunking patterns

('encyclopedia', 'NN'),

('written', 'VBN'),
('by', 'IN'),
('devs', 'NN'),
('for', 'IN'),
('devs', 'NN'),
('devs', 'NN'),

```
chunk_patterns = r"""
    NP: {<DT>?<JJ>*<NN>}  # Chunk noun phrases
    VP: {<VB.*><NP|PP>}  # Chunk verb phrases
"""

chunk_patterns
    '\n    NP: {<DT>?<JJ>*<NN>}  # Chunk noun phrases\n'
    VP: {<VB.*><NP|PP>}  # Chunk verb phrases\n'
```

▼ Create a chunk parser

▼ Perform chunking

```
result = chunk_parser.parse(pos_tags)

print(result)

   (S
        Educative/JJ
        Answers/NNPS
        (VP is/VBZ (NP a/DT free/JJ web/NN))
        (NP encyclopedia/NN)
        written/VBN
        by/IN
        (NP devs/NN)
        for/IN
        (NP devs/NN)
        ./.)
```