Vivekanand Education Society's Institute of Technology

Approved by AICTE & Affiliated to University of Mumbai

Artificial Intelligence and Data Science Department

NLP / Odd Sem 2023-23 / Experiment 6

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Program:

```
import nltk
from nltk import word_tokenize
from nltk import pos_tag
```

```
# example 1
sentences = ['Natural Language Processing is a of computer science information engineering and artificial intelligence.']
```

```
print('Tokens :',tokens)
```

```
Tokens : ['Natural', 'Language', 'Processing', 'is', 'a', 'of', 'computer', 'science', 'information', 'engineering', 'and', 'ar
tificial', 'intelligence', '.']
```

```
for sentence in sentences:
    tokens = word_tokenize(sentence)
    tagged_words = pos_tag(tokens)
    print('POS Tagging :\n', tagged_words)
```

```
POS Tagging :
 [('Natural', 'JJ'), ('Language', 'NNP'), ('Processing', 'NNP'), ('is', 'VBZ'), ('a', 'DT'), ('of', 'IN'), ('computer', 'NN'),
('science', 'NN'), ('information', 'NN'), ('engineering', 'NN'), ('and', 'CC'), ('artificial', 'JJ'), ('intelligence', 'NN'),
('.', '.')]
```

```
# example 2
sentences1 = ['Dear students please refer to the attached links for implementing the mini projects.']
print('Tokens :',tokens)
```

```
Tokens : ['Dear', 'students', 'please', 'refer', 'to', 'the', 'attached', 'links', 'for', 'implementing', 'the', 'mini', 'proje
cts', '.']
```

```
for sentence in sentences1:
    tokens = word_tokenize(sentence)
    tagged_words = pos_tag(tokens)
    print('POS Tagging :\n', tagged_words)
```

```
POS Tagging :
 [('Dear', 'JJ'), ('students', 'NNS'), ('please', 'VBP'), ('refer', 'VB'), ('to', 'TO'), ('the', 'DT'), ('attached', 'JJ'), ('l
inks', 'NNS'), ('for', 'IN'), ('implementing', 'VBG'), ('the', 'DT'), ('mini', 'NN'), ('projects', 'NNS'), ('.', '.')]
```