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**Batch: MCA-B**

**Date: 24-11-2022**

**DATA SCIENCE LAB**

**Experiment No.: 14**

**Aim**

Program for Natural Language Processing which perform parts of speech tagging.

**Procedure**

import nltk

from nltk.tag import DefaultTagger

exptagger = DefaultTagger('NN')

exptagger.tag\_sents([['Hi', ','], ['How', 'are', 'you', '?']])

Output

[[('Hi', 'NN'), (',', 'NN')], [('How', 'NN'), ('are', 'NN'), ('you', 'NN'), ('?', 'NN')]]

import nltk

from nltk.tag import untag

untag([('Tutorials', 'NN'), ('Point', 'NN')])

Output

['Tutorials', 'Point']

sentence = """At eight o'clock on Thursday morning

Arthur didn't feel very good."""

tokens = nltk.word\_tokenize(sentence)

tagged = nltk.pos\_tag(tokens)

print(tagged)

Output

['At', 'eight', "o'clock", 'on', 'Thursday', 'morning', 'Arthur', 'did', "n't", 'feel', 'very', 'good', '.']

[('At', 'IN'), ('eight', 'CD'), ("o'clock", 'NN'), ('on', 'IN'), ('Thursday', 'NNP'), ('morning', 'NN'), ('Arthur', 'NNP'), ('did', 'VBD'), ("n't", 'RB'), ('feel', 'VB'), ('very', 'RB'), ('good', 'JJ'), ('.', '.')]

text ="learn php from guru99 and make study easy".split()

print("After Split:",text)

tokens\_tag = nltk.pos\_tag(text)

print("After Token:",tokens\_tag)

Output

After Split: ['learn', 'php', 'from', 'guru99', 'and', 'make', 'study', 'easy']

After Token: [('learn', 'JJ'), ('php', 'NN'), ('from', 'IN'), ('guru99', 'NN'), ('and', 'CC'), ('make', 'VB'), ('study', 'NN'), ('easy', 'JJ')]

**Result**

The program was executed and the result was successfully obtained. Thus CO5 was obtained.