PROGRAM-9

Aim: Write a program in python to POS (Parts of Speech) tagging for given sentence using NLTK

Logic: POS tagging is a process to mark up the words in text format for a particular part of a speech based on its definition and context. It is responsible for text reading in a language and assigning some specific token to each word. Also called grammatical tagging.

Algorithm:

1. Import NLTK module into code
2. Import stop-words module using nltk.Corpus
3. Import word_tokenize, sent_tokenize from nltk.tokenize
4. Input sentence
5. Use nltk.pos_tag to tag word in the sentence.
6. Print the tagged words

Implementation:

```
from nltk.corpus import stopwords

from nltk.tokenize import word_tokenize, sent_tokenize
from nltk.tag import pos_tag

stop_words = set(stopwords.words("English"))
message = input("Enter message : ")
tokens = sent_tokenize(message)

print("POS tags for each word are : ")
for token in tokens:
    word = word_tokenize(token)
    word = [w for w in word if not w in stop_words]
    tag = pos_tag(word)
    print(tag)
```

Input:

How to use nltk pos tag by using python

Output: