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ARTIFICIAL INTELLIGENCE LAB

EXP 11

Implementation of NLP – Tagging and Parts of Speech

Working Principle

In natural language processing, human language is separated into fragments so that the grammatical structure of sentences and the meaning of words can be analyzed and understood in context.

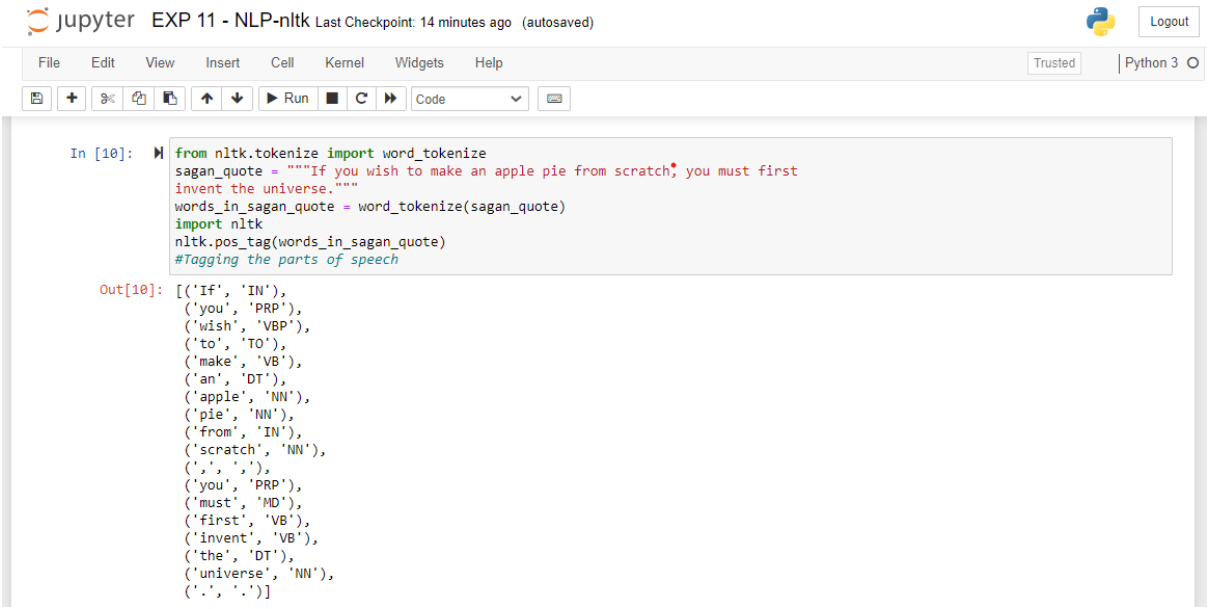
• Part-of-speech-tagging: marking up words as nouns, verbs, adjectives, adverbs, pronouns, etc

In python the availability of nltk makes the working of nlp very easy and efficient. The word tokeniser splits the given sentence into words and then the pos_tag helps in identification of the the parts of speech and tag them accordingly.

Source Code

```
from nltk.tokenize import word_tokenize

sagan_quote = """If you wish to make an apple pie from scratch, you must first

invent the universe."""

words_in_sagan_quote = word_tokenize(sagan_quote)

import nltk

nltk.pos_tag(words_in_sagan_quote)

#Tagging the parts of speech
```

Output



Result

Hence, the Implementation of NLP for tagging parts of speech is done successfully.