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Perform POS tagging on the given English and Indian

Language Text

Date of Performance:

Date of Submission:



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Aim: Perform POS tagging on the given English and Indian Language Text

**Objective:** To study POS Tagging and tag the part of speech for given input in english and an Indian Language.

## Theory:

The primary target of Part-of-Speech (POS) tagging is to identify the grammatical group of a given word. Whether it is a NOUN, PRONOUN, ADJECTIVE, VERB, ADVERBS, etc. based on the context. POS Tagging looks for relationships within the sentence and assigns a corresponding tag to the word.

**POS Tagging** (Parts of Speech 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 (Parts of Speech) to each word. It is also called grammatical tagging.

### **Steps Involved in the POS tagging example:**

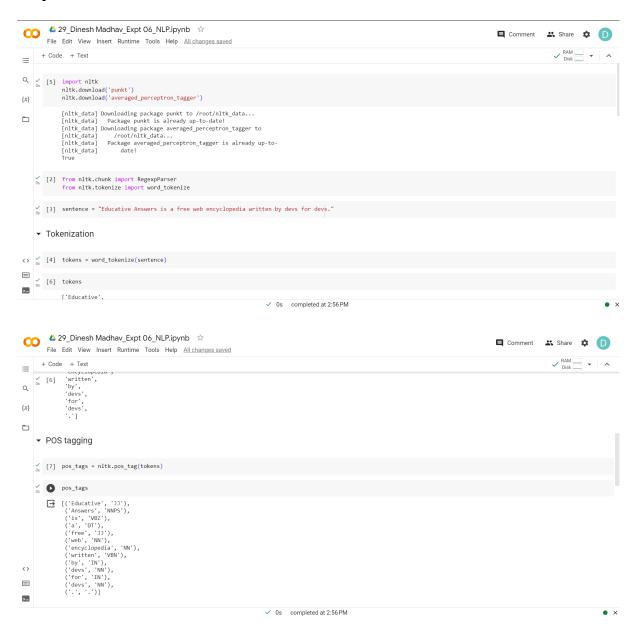
- Tokenize text (word tokenize)
- apply pos tag to above step that is nltk.pos tag(tokenize text)

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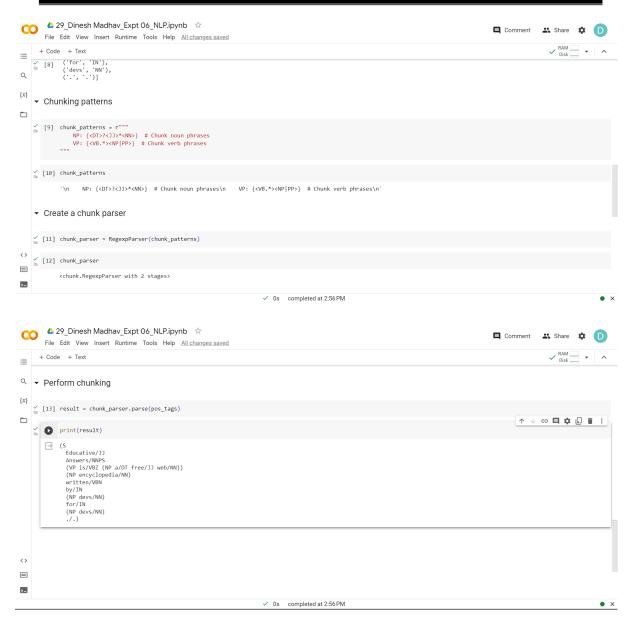
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### **Output:**





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#### **Conclusion:**

POS tagging is the process of assigning a part-of-speech tag to each word in a sentence. Part-of-speech tags are labels that indicate the grammatical function of a word in a sentence, such as noun, verb, adjective, adverb, etc.

The result of POS tagging is a sequence of part-of-speech tags, one for each word in the sentence. For example, the POS tagging for the sentence "The cat sat on the mat" would be:

#### DET NN VBD IN DET NN

There are two main types of POS tagging techniques: rule-based and statistical.

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