Day-13[2211cs020206]

```
In [1]:
             import spacy
          2
          3
             def pos_tagging(text):
          4
          5
                 Perform part-of-speech tagging on the given text using SpaCy.
          6
          7
                 Args:
          8
                     text (str): The input text to be POS tagged.
          9
         10
                 Returns:
         11
                     list: A list of tuples with each word and its corresponding POS to
         12
         13
                 nlp = spacy.load('en_core_web_sm')
         14
                 doc = nlp(text)
         15
                 pos_tags = [(token.text, token.pos_) for token in doc]
         16
                 return pos_tags
         17 sentence = 'NLP is amazing and fun to learn.'
         18
             pos_tags = pos_tagging(sentence)
             print("Part-of-speech tags:")
         19
         20 for word, pos in pos_tags:
                 print(f"{word}: {pos}")
         21
        Part-of-speech tags:
        NLP: PROPN
        is: AUX
        amazing: ADJ
        and: CCONJ
        fun: ADJ
        to: PART
        learn: VERB
        .: PUNCT
In [ ]:
```