## [Day-32 2211cs020196] Write a Python program to load a text file, perform tokenization, calculate the term frequency (TF) of each token, and display the top 5 most frequent tokens.

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In [1]:
 1 import nltk
 2 from collections import Counter
 3 import re
 4 | nltk.download('punkt')
 5 def tokenize text(text):
       tokens = nltk.word tokenize(text)
       return tokens
 8 def calculate tf(tokens):
       tf = Counter(tokens)
10
       return tf
11 | text = """
12 The quick brown fox jumps over the lazy dog. The quick brown fox is very quick and very brown.
13 The dog, however, is just lazy. Foxes are generally quick and dogs are sometimes lazy.
14
15 text = re.sub(r'\W+', ' ', text).lower()
16 tokens = tokenize text(text)
17 | tf = calculate tf(tokens)
18 top 5 tokens = tf.most common(5)
19 print("Top 5 Most Frequent Tokens:")
20 for token, freq in top 5 tokens:
       print(f"{token}: {freq}")
21
22
```