[Day-8 2211cs020196]Write a Python script that: 1. Tokenizes a sample paragraph into words and sentences.

```
In [2]:
  1 !pip install nltk
  2 import nltk
  3 | nltk.download('punkt')
  4 def tokenize text(paragraph):
         sentences = nltk.sent_tokenize(paragraph)
  5
  6
        words = [nltk.word_tokenize(sentence) for sentence in sentences]
  7
         return sentences, words
    paragraph = """
  8
    Tokenization is the process of breaking text into smaller units called tok
 9
 10 These tokens can be words, sentences, or even smaller units. Tokenization
    important step in text preprocessing.
 11
 12
 13
    sentences, words = tokenize text(paragraph)
    print("Sentences:")
 14
 15 for sentence in sentences:
         print(sentence)
 16
 17
    print("\nWords:")
 18 for word_list in words:
 19
         print(word list)
 20
Requirement already satisfied: nltk in d:\python\lib\site-packages (3.8.1)
Requirement already satisfied: click in d:\python\lib\site-packages (from nlt
k) (8.0.4)
Requirement already satisfied: joblib in d:\python\lib\site-packages (from nl
tk) (1.2.0)
Requirement already satisfied: regex>=2021.8.3 in d:\python\lib\site-packages
(from nltk) (2022.7.9)
Requirement already satisfied: tqdm in d:\python\lib\site-packages (from nlt
k) (4.65.0)
Requirement already satisfied: colorama in d:\python\lib\site-packages (from
click->nltk) (0.4.6)
Sentences:
Tokenization is the process of breaking text into smaller units called token
These tokens can be words, sentences, or even smaller units.
Tokenization is an
important step in text preprocessing.
Words:
['Tokenization', 'is', 'the', 'process', 'of', 'breaking', 'text', 'into', 's
maller', 'units', 'called', 'tokens', '.'
['These', 'tokens', 'can', 'be', 'words', ',', 'sentences', ',', 'or', 'eve
n', 'smaller', 'units', '.']
['Tokenization', 'is', 'an', 'important', 'step', 'in', 'text', 'preprocessin
g', '.']
[nltk_data] Downloading package punkt to C:\Users\Sai Krishna
[nltk_data]
                Hari\AppData\Roaming\nltk_data...
[nltk_data]
              Package punkt is already up-to-date!
```