**PROGRAM [13]:**

import nltk

nltk.download('punkt')

nltk.download('stopwords')

nltk.download('wordnet')

from nltk.corpus import stopwords

from nltk.tokenize import word\_tokenize

from nltk.stem import WordNetLemmatizer

# Define sample text

text = "Natural Language Processing (NLP) is a subfield of linguistics, computer science, and artificial intelligence concerned with the interactions between computers and human (natural) languages."

# Tokenize text

tokens = word\_tokenize(text)

# Remove stop words

stop\_words = set(stopwords.words('english'))

filtered\_tokens = [word for word in tokens if word.lower() not in stop\_words]

# Lemmatize tokens

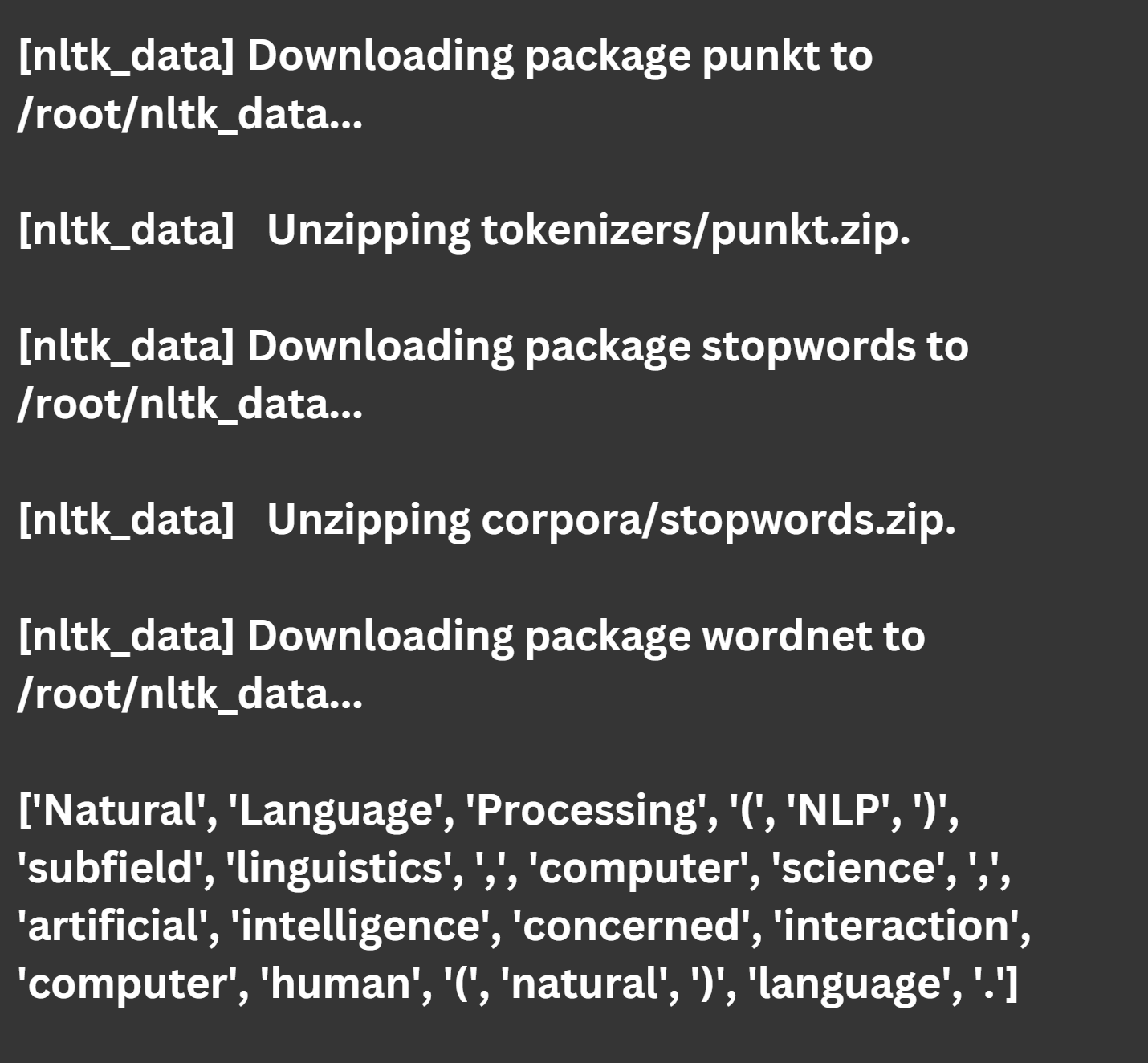
lemmatizer = WordNetLemmatizer()

lemmatized\_tokens = [lemmatizer.lemmatize(token) for token in filtered\_tokens]

# Print lemmatized tokens

print(lemmatized\_tokens)

**OUTPUT [13]:**

****