sentence1 **=** "I will walk 500 miles and I would walk 500 more. Just to be the man who walks " **+** \

"a thousand miles to fall down at your door!"

sentence2 **=** "I played the play playfully as the players were playing in the play with playfullness"

**from** nltk **import** word\_tokenize, sent\_tokenize

print("---------Tokenized Words------------")

print('Tokenized words:', word\_tokenize(sentence1))

print("\n")

print("---------Tokenized Sentences------------")

print('Tokenized sentences:', sent\_tokenize(sentence1))

print("\n")

**from** nltk **import** pos\_tag

print("---------POS Tagging------------")

token **=** word\_tokenize(sentence1) **+** word\_tokenize(sentence2)

print('POS tagged:', pos\_tag(token))

print("\n")

print("---------Stop-Words Removal------------")

**from** nltk.corpus **import** stopwords

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

token **=** word\_tokenize(sentence1)

cleaned\_token **=** []

**for** word **in** token:

**if** word **not** **in** stop\_words:

cleaned\_token**.**append(word)

print("Unclean version:", token)

print("\n")

print("Cleaned version:", cleaned\_token)

print("\n")

print("---------Stemming------------")

**from** nltk.stem **import** PorterStemmer

stemmer **=** PorterStemmer()

token **=** word\_tokenize(sentence2)

stemmed **=** [stemmer**.**stem(word) **for** word **in** token]

print("Stemmed words:", stemmed)

print("\n")

print("---------Lemmatization------------")

**from** nltk.stem **import** WordNetLemmatizer

lemmatizer **=** WordNetLemmatizer()

token **=** word\_tokenize(sentence2)

lemmatized **=** [lemmatizer**.**lemmatize(word) **for** word **in** token]

print("Lemmatized words:", lemmatized)

print("\n")