



```
Jupyter Practical 7 Last Checkpoint: 3 hours ago (autosaved)
                                                                                                                                                                                                                                                                                  Logout
 File Edit View Insert Cell Kernel Widgets Help
                                                                                                                                                                                                                              Not Trusted Python 3 (ipykernel) O
                                                                                                                           ~
[2] + | % | Ø | Ø | ↑ | ↓ | ▶ Run | ■ | C | ▶ | Code
           In [9]: #Removing Stopwords
from nltk.tokenize import word_tokenize
texti="""Hello Mr.smith,how are you doing today?"""
tokenized_sent=word_tokenize(text1)
print(tokenized_sent)
filtered_sent=[]
for w in tokenized_sent:
    if w not in stop_words:
        ifltered_sent.append(w)
print("Tokenized_Sentenes:",tokenized_sent)
print("Filtered_Sentenee:",'tokenized_sent)

**Mosmith'...', 'how', 'are', 'you', 'do
                              ['Hello', 'Mr.smith', ',', 'how', 'are', 'you', 'doing', 'today', '?']
Tokenized Sentences: ['Hello', 'Mr.smith', ',', 'how', 'are', 'you', 'doing', 'today', '?']
Filtered Sentence: ['Hello', 'Mr.smith', ',', 'today', '?']
           In [11]: #Stemming
from nltk.stem import PorterStemmer
from nltk.tokenize import sent_tokenize, word_tokenize
                              ps = PorterStemmer()
                               stemmed_words=[]
for w in filtered_sent:
                                  stemmed_words.append(ps.stem(w))
                              print("Filtered Sentence:",filtered_sent)
print("Stemmed Sentence:",stemmed_words)
                              Filtered Sentence: ['Hello', 'Mr.smith', ',', 'today', '?']
Stemmed Sentence: ['hello', 'mr.smith', ',', 'today', '?']
           In [14]: #Lexicon Normalization
#performing stemming and Lemmenization
                              nltk.download('wordnet')
nltk.download('omw-1.4')
from nltk.stem.wordnet import WordNetLemmatizer
lem = WordNetLemmatizer()
                               from nltk.stem.porter import PorterStemmer
stem = PorterStemmer()
                              word = "flying"
print("Lemmenized word:",lem.lemmatize(word,"v"))
print("Stemmed word:",stem.stem(word))
                               [nltk_data] Downloading package wordnet to
[nltk_data] C:\Users\Admin\AppData\Roaming\nltk_data...
[nltk_data] Package wordnet is already up-to-date!
[nltk_data] Downloading package omw-1.4 to
[nltk_data] C:\Users\Admin\AppData\Roaming\nltk_data...
```



