

Lab3 [D:\Google Drive\UMKC\PhD\Classes\Python\Labs\Lab 3\Lab3] - PyCharm

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Lab3 Lab3 Q3.py

Lab3 Q3

```
Project
└─ Lab3 D:\Google Drive\UMKC\PhD\Classes\Python\Labs\Lab 3\
  └─ venv library root
    └─ desktop.ini
    └─ Lab3 Q1.py
    └─ Lab3 Q2 - Linear.py
    └─ Lab3 Q2-RBF.py
    └─ Lab3 Q3.py
    └─ temp.py
  └─ External Libraries

42 wnl = WordNetLemmatizer() #create lemmatizer
43 lem = [wnl.lemmatize(tkn,pos="v") for tkn in token]
44 print("Lemmatize (verbs): \n",lem,"\n")
45
46 #Try lemmatizing looking for adjectives
47 wnl = WordNetLemmatizer() #create lemmatizer
48 lem = [wnl.lemmatize(tkn,pos="a") for tkn in token]
49 print("Lemmatize (adjectives): \n",lem,"\n")
50
51 #Try lemmatizing looking for adverbs
52 wnl = WordNetLemmatizer() #create lemmatizer
53 lem = [wnl.lemmatize(tkn,pos="r") for tkn in token]
54 print("Lemmatize (adverbs): \n",lem,"\n")
55
56 #Apply bigram on the text
57 #Grouping two words together. This includes special characters like '('
58 bigram = [tkn for tkn in nltk.bigrams(token)]
59 print("Bigram: \n",bigram)
60
61 #Calculate the Bigram Frequency
62 freq_bi=nltk.FreqDist(bigram)
63
64 #Find the 5 most common bigrams
65 bi_common=freq_bi.most_common(5)
66 print("\nThe 5 most common bigrams are:\n",bi_common)
```

Run: Lab3 Q2-RBF Lab3 Q3

"D:\Google Drive\UMKC\PhD\Classes\Python\Labs\Lab 3\Lab3\venv\Scripts\python.exe" "D:\Google Drive\UMKC\PhD\Classes\Python\Labs\Lab 3\Lab3\Lab3 Q3.py"

Tokenize:

```
['2018', 'Spring', ':', 'COMP-SCI', '5590/490', '-', 'Special', 'Topics', 'Python', 'Programming', 'Lab', 'Assignment', '3', 'Assignment', 'Overview', 'The', 'following', 'assignment', 'focus', 'on', 'to']
```

Lemmatize (nouns):

```
['2018', 'Spring', ':', 'COMP-SCI', '5590/490', '-', 'Special', 'Topics', 'Python', 'Programming', 'Lab', 'Assignment', '3', 'Assignment', 'Overview', 'The', 'following', 'assignment', 'focus', 'on', 'to']
```

Lemmatize (verbs):

```
['2018', 'Spring', ':', 'COMP-SCI', '5590/490', '-', 'Special', 'Topics', 'Python', 'Programming', 'Lab', 'Assignment', '3', 'Assignment', 'Overview', 'The', 'follow', 'assignment', 'focus', 'on', 'to',
```

Lemmatize (adjectives):

```
['2018', 'Spring', ':', 'COMP-SCI', '5590/490', '-', 'Special', 'Topics', 'Python', 'Programming', 'Lab', 'Assignment', '3', 'Assignment', 'Overview', 'The', 'following', 'assignment', 'focus', 'on', 'to']
```

3:81 CRLF UTF-8

11:22 PM  
3/5/2018