



# Web Mining Lab FAT

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## Question :

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[VL2020210504/58]

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Question **1**

Not yet answered

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Write a program (using nltk toolkit in python environment) to tokenize the document in the location <http://www.doc.ic.ac.uk/~susan/121/tut4.pdf>

a) Sentence  
b) Multiple sentences  
c) A paragraph

Answer:

Quiz navigation



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Finish attempt ...

## Procedure :

Install the nltk toolkit in python environment using the pip install command. Import nltk to the code file. Download the class stopwords and punkt from nltk toolkit. Import stopwords from nltk.corpus and word\_tokenize from nltk.tokenize.

Open the given file in the question. Create three variables and store a sentence, multiple sentences and a paragraph in the three variables. Create a variable which stores the stopwords that are fetched from nltk. Use the tokenize method to create tokens of the 3 variables which contain file data. Loop through the tokens and filter out the stopwords. Display the tokens and filtered array of each of the three variables.

## Code :

```
!pip install nltk
import nltk

nltk.download('stopwords')
nltk.download('punkt')

from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize
print("KULVIR SINGH 19BCE2074")
sentenceFromFile = "The scorer keeps this list secret: it is called the code."
multipleSentencesFromFile = "The scorer keeps this list secret: it is called the code. The guesser now tries to guess the code.The scorer gives a score to each guess the guesser makes."
paragraphFromFile = "Cows and Bulls, is played between two players, the scorer and the guesser. The scorer chooses a list of 4 numbers (repetitions are not allowed) from the numbers 1, 2, 3, 4, 5, 6, 7, 8 and 9."

stop_words = set(stopwords.words('english'))

print("a)Sentence")
words_tokens = word_tokenize(sentenceFromFile)
filtered_paragraph = [w for w in words_tokens if not w in stop_words]
print("Tokenized Sentence = \n",words_tokens)
print("Filtered sentence = \n",filtered_paragraph)

print("b)Multiple Sentences")
words_tokens = word_tokenize(multipleSentencesFromFile)
filtered_paragraph = [w for w in words_tokens if not w in stop_words]
print("Tokenized multiple sentences = \n",words_tokens)
print("Filtered multiple sentences = \n",filtered_paragraph)

print("c)Paragraph")
words_tokens = word_tokenize(paragraphFromFile)
filtered_paragraph = [w for w in words_tokens if not w in stop_words]
print("Tokenized Paragrph = \n",words_tokens)
print("Filtered Paragraph = \n",filtered_paragraph)
```

## Output Screenshots :

```

Requirement already satisfied: nltk in /usr/local/lib/python3.7/dist-packages (3.2.5)
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from nltk) (1.15.0)
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Package stopwords is already up-to-date!
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data] Package punkt is already up-to-date!
KULVIR SINGH 19BCE2074
a)Sentence
Tokenized Sentence =
['The', 'scorer', 'keeps', 'this', 'list', 'secret', ':', 'it', 'is', 'called', 'the', 'code', '.']
Filtered sentence =
['The', 'scorer', 'keeps', 'list', 'secret', ':', 'called', 'code', '.']
b)Multiple Sentences
Tokenized multiple sentences =
['The', 'scorer', 'keeps', 'this', 'list', 'secret', ':', 'it', 'is', 'called', 'the', 'code', '.', 'The', 'guesser', 'now', 'tries', 'to', 'guess',
Filtered multiple sentences =
['The', 'scorer', 'keeps', 'list', 'secret', ':', 'called', 'code', '.', 'The', 'guesser', 'tries', 'guess', 'code.The', 'scorer', 'gives', 'score',
c)Paragraph
Tokenized Paragraph =
['Cows', 'and', 'Bulls', ',', 'is', 'played', 'between', 'two', 'players', ',', 'the', 'scorer', 'and', 'the', 'guesser', '.', 'The', 'scorer', 'cho
Filtered Paragraph =
['Cows', 'Bulls', ',', 'played', 'two', 'players', ',', 'scorer', 'guesser', '.', 'The', 'scorer', 'chooses', 'list', '4', 'numbers', '(', 'repetiti

```

### **Output in text form :**

```

Requirement already satisfied: nltk in /usr/local/lib/python3.7/dist-
packages (3.2.5)
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-
packages (from nltk) (1.15.0)
[nltk_data] Downloading package stopwords to /root/nltk_data...
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[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data] Package punkt is already up-to-date!
KULVIR SINGH 19BCE2074
a)Sentence
Tokenized Sentence =
['The', 'scorer', 'keeps', 'this', 'list', 'secret', ':', 'it', 'is',
'called', 'the', 'code', '.']
Filtered sentence =
['The', 'scorer', 'keeps', 'list', 'secret', ':', 'called', 'code', '.']
b)Multiple Sentences
Tokenized multiple sentences =
['The', 'scorer', 'keeps', 'this', 'list', 'secret', ':', 'it', 'is',
'called', 'the', 'code', '.', 'The', 'guesser', 'now', 'tries', 'to',
'guess', 'the', 'code.The', 'scorer', 'gives', 'a', 'score', 'to', 'each',
'guess', 'the', 'guesser', 'makes', '.']
Filtered multiple sentences =
['The', 'scorer', 'keeps', 'list', 'secret', ':', 'called', 'code', '.',
'The', 'guesser', 'tries', 'guess', 'code.The', 'scorer', 'gives',
'score', 'guess', 'guesser', 'makes', '.']
c)Paragraph
Tokenized Paragraph =
['Cows', 'and', 'Bulls', ',', 'is', 'played', 'between', 'two',
'players', ',', 'the', 'scorer', 'and', 'the', 'guesser', '.', 'The',
'scorer', 'chooses', 'a', 'list', 'of', '4', 'numbers', '(',
'repetitions', 'are', 'not', 'allowed', ')', 'from', 'the', 'numbers',
'1', ',', '2', ',', '3', ',', '4', ',', '5', ',', '6', ',', '7', ',', '8',
'and', '9', '.']
Filtered Paragraph =

```

```
['Cows', 'Bulls', ',', 'played', 'two', 'players', ',', 'scorer',  
'guesser', '.', 'The', 'scorer', 'chooses', 'list', '4', 'numbers', '(',  
'repetitions', 'allowed', ')', 'numbers', '1', ',', '2', ',', '3', ',',  
'4', ',', '5', ',', '6', ',', '7', ',', '8', '9', '.']
```