Registration Number:- 19BCE2119 Course:- Web Mining (L5+L6)

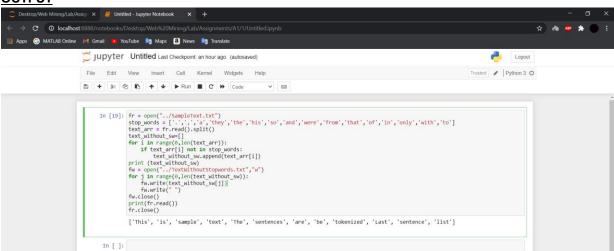
1) Write a program to remove the stopwords for any given paragraph. Create a set of stopwords given below and print the output.

```
stop_words =
['.',',','a','they','the','his','so','and','were','from',that','of','in','only','with','to']
```

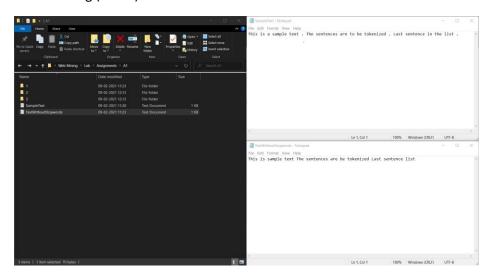
PROCEDURE

CODE

```
fr = open("../SampleText.txt")
stop_words = ['.',','a','they','the','his','so','and','were','from','that','of','in','only','with','to']
text_arr = fr.read().split()
text_without_sw=[]
for i in range(0,len(text_arr)):
    if text_arr[i] not in stop_words:
        text_without_sw.append(text_arr[i])
print (text_without_sw)
fw = open("../TextWithoutStopwords.txt","w")
for j in range(0,len(text_without_sw)):
    fw.write(text_without_sw)[j])
    fw.write(text_without_sw[j])
fw.write(" ")
fw.close()
print(fr.read())
fr.close()
```



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2) Write a program to tokenize (without Nltk)

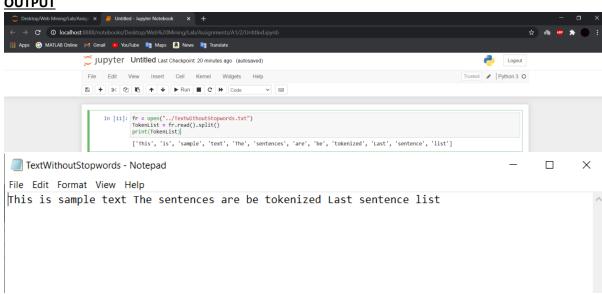
a) A sentence

PROCEDURE

FileReader = open (File, read) Tokens= FileReader.read().split() Print(Tokens)

CODE

fr = open("../TextWithoutStopwords.txt") TokenList = fr.read().split() print(TokenList)



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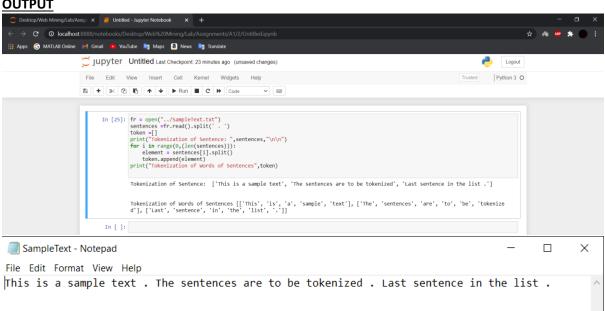
b) Multiple Sentences

PROCEDURE

```
FileReader = open (File, read)
Sentences= FileReader.read().split('.')
Print(Sentences)
For i in (0 to lengthof(Sentences))
    Arr[] = Sentences[i].split()
    Text.append(Arr)
Print (Text)
```

CODE

```
fr = open("../SampleText.txt")
sentences =fr.read().split(' . ')
token =[]
print("Tokenization of Sentence: ",sentences,"\n\n")
for i in range(0,(len(sentences))):
  element = sentences[i].split()
  token.append(element)
print("Tokenization of Words of Sentences",token)
```



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3) Write a program (using nltk toolkit in python environment) to tokenize

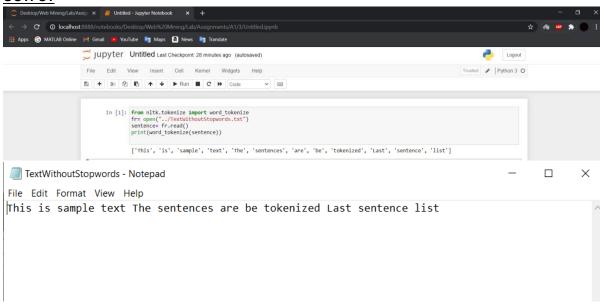
a) A sentence

PROCEDURE

//Importing NLTK library to use the word_tokenize function Import nltk.tokenize.word_tokenize FileReader=open(File, read) Sentence=FileReader.read() Print(word_tokenize(Sentence))

CODE

from nltk.tokenize import word_tokenize
fr= open("../TextWithoutStopwords.txt")
sentence= fr.read()
print(word_tokenize(sentence))



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b) A paragraph

PROCEDURE

//Importing NLTK library to use the sent_tokenize function Import nltk.tokenize.sent_tokenize FileReader=open(File, read) Paragraph=FileReader.read() Print(sent_tokenize(Paragraph))

CODE

from nltk.tokenize import sent_tokenize
fr= open("../SampleText.txt")
para= fr.read()
print(sent_tokenize(para))

