###Lab: 06   Date: 01.04.222
###Program No.:06

###Program Name: Write a Python Program to perform Stemming.

#ANINDYA Nag
#ROLL : UG/02/BTCSE/2018/005

#CODE:1

#Stemming
import nltk
nltk.download('punkt')

```
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data]   Package punkt is already up-to-date!
True
```


#Porter Stemmer
from nltk.stem import PorterStemmer

#Snow Stemmer
from nltk.stem.snowball import SnowballStemmer

#For Porter Stemmer word
port = PorterStemmer()
word = input('Enter a word to be stemmed: ')
print(word, " : ",port.stem(word))

```
Enter a word to be stemmed: swimming
swimming  :  swim
```


#For Snow Stemmer word
snow_stemmer = SnowballStemmer(language = 'english')
word = input('Enter a word to be stemmed: ')
print(word, " : ",snow_stemmer.stem(word))

```
Enter a word to be stemmed: searched
searched  :  search
```


#For sentence
#sample = "Information Retrieval refers to the process and procedures of searching & locating

sample = input('Enter a sentence to be stemmed: ')

```
Enter a sentence to be stemmed: Information Retrieval refers to the process and procedur
```

```python
#tokenization
from nltk.tokenize import word_tokenize


#For Porter Stemmer Sentence
for word in word_tokenize(sample):
  print(port.stem(word))
```

```
    inform
    retriev
    refer
    to
    the
    process
    and
    procedur
    of
    search
    &
    locat
    and
    retriev
    record
    data
    and
    inform
    from
    a
    databas
```

```python
#For Snow Stemmer Sentence
for word in word_tokenize(sample):
  print(snow_stemmer.stem(word))
```

```
    inform
    retriev
    refer
    to
    the
    process
    and
    procedur
    of
    search
    &
    locat
    and
    retriev
    record
    data
    and
    inform
```

```
from
a
databas
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