

```
SRUniversity="""The SR University campus is located in Ananthasagar village of Hasanparthy Mandal in Warangal, Telangana, India.
It is in 150 acres, with both separate hostel facilities for boys and girls.
There is a huge central library along with Indias largest Technology Business Incubator (TBI) in tier 2 cities."""
```

```
SRUniversity
```

```
'The SR University campus is located in Ananthasagar village of Hasanparthy Mandal in Warangal, Telangana, India. \nIt is in 150 acres, with both separate hostel facilities for boys and girls. \nThere is a huge central library along with Indias largest Technology Business Incubator (TBI) in tier 2 cities.'
```

```
import nltk
nltk.download('punkt')
nltk.download('punkt_tab')
from nltk.tokenize import word_tokenize
word_tokenize(SRUniversity)

[nltk_data] Downloading package punkt_tab to /root/nltk_data...
[nltk_data]   Unzipping tokenizers/punkt_tab.zip.
['The',
 'SR',
 'University',
 'campus',
 'is',
 'located',
 'in',
 'Ananthasagar',
 'village',
 'of',
 'Hasanparthy',
 'Mandal',
 'in',
 'Warangal',
 ',',
 'Telangana',
 ',',
 'India',
 ',',
 'It',
 'is',
 'in',
 '150',
 'acres',
 ',',
 'with',
 'both',
 'separate',
 'hostel',
 'facilities',
 'for',
 'boys',
 'and',
 'girls',
 ',',
 'There',

 'huge',
```

```
'central',
'library',
'along',
'with',
'Indias',
'largest',
'Technology',
'Business',
'Incubator',
'(',
'TBI',
')',
'in',
'tier',
'2',
'cities',
'.']
```

```
from nltk.tokenize import sent_tokenize
sent_tokenize(SRUniversity)
```

```
['The SR University campus is located in Ananthasagar village of Hasanparthy Mandal in Warangal, Telangana, India.',
'It is in 150 acres, with both separate hostel facilities for boys and girls.',
'There is a huge central library along with Indias largest Technology Business Incubator (TBI) in tier 2 cities.']
```

```
nltk.download("stopwords")
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize
```

```
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Unzipping corpora/stopwords.zip.
```

```
words_in_quote = word_tokenize(SRUniversity)
words_in_quote
```

```
['The',
'SR',
'University',
'campus',
'is',
'located',
'in',
'Ananthasagar',
'village',
'of',
'Hasanparthy',
'Mandal',
'in',
'Warangal',
',',
'Telangana',
',',
'India',
',',
'It',
'is',
'in',
'150',
```

```
'acres',
',',
'with',
'both',
'separate',
'hostel',
'facilities',
'for',
'boys',
'and',
'girls',
',',
'There',
'is',
'a',
'huge',
'central',
'library',
'along',
'with',
'Indias',
'largest',
'Technology',
'Business',
'Incubator',
'(',
'TBI',
')',
'in',
'tier',
'2',
'cities',
','.]
```

```
stop_words = set(stopwords.words("english"))
filtered_list = []
for word in words_in_quote:
    if word.casefold() not in stop_words:
        filtered_list.append(word)
filtered_list
```

```
['SR',
'University',
'campus',
'located',
'Ananthasagar',
'village',
'Hasanparthy',
'Mandal',
'Warangal',
',',
'Telangana',
',',
'India',
',',
'150',
'acres',
',',
'separate',
'hostel',
```

```
'facilities',
'boys',
'girls',
'',
'huge',
'central',
'library',
'along',
'Indias',
'largest',
'Technology',
'Business',
'Incubator',
'(',
'TBI',
')',
'tier',
'2',
'cities',
'.']
```

```
from nltk.stem import PorterStemmer
from nltk.tokenize import word_tokenize
stemmer = PorterStemmer()
words = word_tokenize(SRUniversity)
stemmed_words = [stemmer.stem(word) for word in words]
stemmed_words
```

```
['the',
'sr',
'univers',
'campu',
'is',
'locat',
'in',
'ananthasagar',
'villag',
'of',
'hasanparthi',
'mandal',
'in',
'warang',
',',
'telangana',
',',
'india',
'',
'it',
'is',
'in',
'150',
'acr',
',',
'with',
'both',
'separ',
'hostel',
'facil',
'for',
'boy',
```

```
'and',
'girl',
',',
'there',
'is',
'a',
'huge',
'central',
'librari',
'along',
'with',
'india',
'largest',
'technolog',
'busi',
'incub',
'(',
'tbi',
')',
'in',
'tier',
'2',
'citi',
'.']
```

```
from nltk.stem import SnowballStemmer
snowball = SnowballStemmer(language='english')
words = word_tokenize(SRUniversity)
for word in words:
    print(word,"-->",snowball.stem(word))
```

```
The --> the
SR --> sr
University --> univers
campus --> campus
is --> is
located --> locat
in --> in
Ananthasagar --> ananthasagar
village --> villag
of --> of
Hasanparthy --> hasanparthi
Mandal --> mandal
in --> in
Warangal --> warang
, --> ,
Telangana --> telangana
, --> ,
India --> india
. --> .
It --> it
is --> is
in --> in
150 --> 150
acres --> acr
, --> ,
with --> with
both --> both
separate --> separ
hostel --> hostel
facilities --> facil
```

```

for ----> for
boys ----> boy
and ----> and
girls ----> girl
. ----> .
There ----> there
is ----> is
a ----> a
huge ----> huge
central ----> central
library ----> librari
along ----> along
with ----> with
Indias ----> india
largest ----> largest
Technology ----> technolog
Business ----> busi
Incubator ----> incub
( ----> (
TBI ----> tbi
) ----> )
in ----> in
tier ----> tier
2 ----> 2
cities ----> citi
. ----> .

```

```

from nltk import LancasterStemmer
Lanc = LancasterStemmer()
words = word_tokenize(SRUniversity)
for word in words:
    print(word,"---->",Lanc.stem(word))

```

```

The ----> the
SR ----> sr
University ----> univers
campus ----> camp
is ----> is
located ----> loc
in ----> in
Ananthasagar ----> ananthasag
village ----> vil
of ----> of
Hasanparthy ----> hasanparthy
Mandal ----> mand
in ----> in
Warangal ----> warang
, ----> ,
Telangana ----> telangan
, ----> ,
India ----> ind
. ----> .
It ----> it
is ----> is
in ----> in
150 ----> 150
acres ----> acr
, ----> ,
with ----> with

```

```

both ---> both
separate ---> sep
hostel ---> hostel
facilities ---> facil
for ---> for
boys ---> boy
and ---> and
girls ---> girl
. ---> .
There ---> ther
is ---> is
a ---> a
huge ---> hug
central ---> cent
library ---> libr
along ---> along
with ---> with
Indias ---> india
largest ---> largest
Technology ---> technolog
Business ---> busy
Incubator ---> incub
( ---> (
TBI ---> tbi
) ---> )
in ---> in
tier ---> tier
2 ---> 2
cities ---> city
. ---> .

```

```

from nltk.stem import RegexpStemmer
regexp = RegexpStemmer('ing|e', min=4)
words = word_tokenize(SRUniversity)
for word in words:
    print(word,"--->",Lanc.stem(word))

```

```

The ---> the
SR ---> sr
University ---> univers
campus ---> camp
is ---> is
located ---> loc
in ---> in
Ananthasagar ---> ananthasag
village ---> vil
of ---> of
Hasanparthy ---> hasanparthy
Mandal ---> mand
in ---> in
Warangal ---> warang
, ---> ,
Telangana ---> telangan
, ---> ,
India ---> ind
. ---> .
It ---> it
is ---> is
in ---> in
150 ---> 150
acres ---> acr

```

```
, ---> ,
with ---> with
both ---> both
separate ---> sep
hostel ---> hostel
facilities ---> facil
for ---> for
boys ---> boy
and ---> and
girls ---> girl
. ---> .
There ---> ther
is ---> is
a ---> a
huge ---> hug
central ---> cent
library ---> libr
along ---> along
with ---> with
Indias ---> india
largest ---> largest
Technology ---> technolog
Business ---> busy
Incubator ---> incub
( ---> (
TBI ---> tbi
) ---> )
in ---> in
tier ---> tier
2 ---> 2
cities ---> city
. ---> .
```

```
nltk.download('omw-1.4')
nltk.download('wordnet')
from nltk.stem import WordNetLemmatizer
lemmatizer = WordNetLemmatizer()
words = word_tokenize(SRUniversity)
for word in words:
    print(word,"--->",lemmatizer.lemmatize(word))
```

```
[nltk_data] Package omw-1.4 is already up-to-date!
[nltk_data] Downloading package wordnet to /root/nltk_data...
The ---> The
SR ---> SR
University ---> University
campus ---> campus
is ---> is
located ---> located
in ---> in
Ananthasagar ---> Ananthasagar
village ---> village
of ---> of
Hasanparthy ---> Hasanparthy
Mandal ---> Mandal
in ---> in
Warangal ---> Warangal
, ---> ,
Telangana ---> Telangana
```



```

india ---> india
. ---> .
It ---> It
is ---> is
in ---> in
150 ---> 150
acres ---> acre
, ---> ,
with ---> with
both ---> both
separate ---> separate
hostel ---> hostel
facilities ---> facility
for ---> for
boys ---> boy
and ---> and
girls ---> girl
. ---> .
There ---> There
is ---> is
a ---> a
huge ---> huge
central ---> central
library ---> library
along ---> along
with ---> with
Indias ---> Indias
largest ---> largest
Technology ---> Technology
Business ---> Business
Incubator ---> Incubator
( ---> (
TBI ---> TBI
) ---> )
in ---> in
tier ---> tier
2 ---> 2
cities ---> city
. ---> .

```

```

from nltk.stem import PorterStemmer, SnowballStemmer, LancasterStemmer, RegexpStemmer, WordNetLemmatizer
porter = PorterStemmer()
lancaster = LancasterStemmer()
snowball = SnowballStemmer(language='english')
regexp = RegexpStemmer('ingle', min=4)
lemmatizer = WordNetLemmatizer()

word_list = ["friend", "friendship", "friends", "friendships"]
print("{0:20}{1:20}{2:20}{3:30}{4:40}{5:50}".format("Word", "Porter Stemmer", "Snowball Stemmer", "Lancaster Stemmer", "Regexp Stemmer", "WordNetLemmatizer"))
for word in word_list:
    print("{0:20}{1:20}{2:20}{3:30}{4:40}{5:50}".format(word, porter.stem(word), snowball.stem(word), lancaster.stem(word), regexp.stem(word), lemmatizer.lemmatize(word)))

```

Word	Porter Stemmer	Snowball Stemmer	Lancaster Stemmer	Regexp Stemmer	WordNetLemmatizer
friend	friend	friend	friend	frind	friend
friendship	friendship	friendship	friend	frindship	friendship
friends	friend	friend	friend	frinds	friend
friendships	friendship	friendship	friend	frindships	friendship

~~Political LAMCHA~~

```
(cities, nns),
('.', '.')]

lemmatizer.lemmatize("worst")

'worst'

lemmatizer.lemmatize("worst", pos="a")

'bad'

!pip install nltk spacy
import nltk
nltk.download('punkt')
nltk.download('stopwords')
nltk.download('wordnet')
nltk.download('omw-1.4')
!python -m spacy download en_core_web_sm

Requirement already satisfied: nltk in /usr/local/lib/python3.12/dist-packages (3.9.1)
Requirement already satisfied: spacy in /usr/local/lib/python3.12/dist-packages (3.8.11)
Requirement already satisfied: click in /usr/local/lib/python3.12/dist-packages (from nltk) (8.3.1)
Requirement already satisfied: joblib in /usr/local/lib/python3.12/dist-packages (from nltk) (1.5.3)
Requirement already satisfied: regex<=2021.8.3 in /usr/local/lib/python3.12/dist-packages (from nltk) (2025.11.3)
Requirement already satisfied: tqdm in /usr/local/lib/python3.12/dist-packages (from nltk) (4.67.1)
Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.11 in /usr/local/lib/python3.12/dist-packages (from spacy) (3.0.12)
Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in /usr/local/lib/python3.12/dist-packages (from spacy) (1.0.5)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/python3.12/dist-packages (from spacy) (1.0.15)
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in /usr/local/lib/python3.12/dist-packages (from spacy) (2.0.13)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in /usr/local/lib/python3.12/dist-packages (from spacy) (3.0.12)
Requirement already satisfied: thinc<8.4.0,>=8.3.4 in /usr/local/lib/python3.12/dist-packages (from spacy) (8.3.10)
Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in /usr/local/lib/python3.12/dist-packages (from spacy) (1.1.3)
Requirement already satisfied: srsly<3.0.0,>=2.4.3 in /usr/local/lib/python3.12/dist-packages (from spacy) (2.5.2)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in /usr/local/lib/python3.12/dist-packages (from spacy) (2.0.10)
Requirement already satisfied: weasel<0.5.0,>=0.4.2 in /usr/local/lib/python3.12/dist-packages (from spacy) (0.4.3)
Requirement already satisfied: typer-slim<1.0.0,>=0.3.0 in /usr/local/lib/python3.12/dist-packages (from spacy) (0.20.0)
Requirement already satisfied: numpy>=1.19.0 in /usr/local/lib/python3.12/dist-packages (from spacy) (2.0.2)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in /usr/local/lib/python3.12/dist-packages (from spacy) (2.32.4)
Requirement already satisfied: pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4 in /usr/local/lib/python3.12/dist-packages (from spacy) (2.12.3)
Requirement already satisfied: Jinja2 in /usr/local/lib/python3.12/dist-packages (from spacy) (3.1.6)
Requirement already satisfied: setuptools in /usr/local/lib/python3.12/dist-packages (from spacy) (75.2.0)
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.12/dist-packages (from spacy) (25.0)
Requirement already satisfied: annotated-types>=0.6.0 in /usr/local/lib/python3.12/dist-packages (from pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4->spacy) (0.7.0)
Requirement already satisfied: pydantic-core==2.41.4 in /usr/local/lib/python3.12/dist-packages (from pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4->spacy) (2.41.4)
Requirement already satisfied: typing-extensions>=4.14.1 in /usr/local/lib/python3.12/dist-packages (from pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4->spacy) (4.15.0)
Requirement already satisfied: typing-inspection>=0.4.2 in /usr/local/lib/python3.12/dist-packages (from pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4->spacy) (0.4.2)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.12/dist-packages (from requests<3.0.0,>=2.13.0->spacy) (3.4.4)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.12/dist-packages (from requests<3.0.0,>=2.13.0->spacy) (3.11)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.12/dist-packages (from requests<3.0.0,>=2.13.0->spacy) (2.5.0)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.12/dist-packages (from requests<3.0.0,>=2.13.0->spacy) (2025.11.12)
Requirement already satisfied: blis<1.4.0,>=1.3.0 in /usr/local/lib/python3.12/dist-packages (from thinc<8.4.0,>=8.3.4->spacy) (1.3.3)
Requirement already satisfied: confection<1.0.0,>=0.0.1 in /usr/local/lib/python3.12/dist-packages (from thinc<8.4.0,>=8.3.4->spacy) (0.1.5)
Requirement already satisfied: cloudpathlib<1.0.0,>=0.7.0 in /usr/local/lib/python3.12/dist-packages (from weasel<0.5.0,>=0.4.2->spacy) (0.23.0)
Requirement already satisfied: smart-open<8.0.0,>=5.2.1 in /usr/local/lib/python3.12/dist-packages (from weasel<0.5.0,>=0.4.2->spacy) (7.5.0)
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.12/dist-packages (from Jinja2->spacy) (3.0.3)
Requirement already satisfied: wrapt in /usr/local/lib/python3.12/dist-packages (from smart-open<8.0.0,>=5.2.1->weasel<0.5.0,>=0.4.2->spacy) (2.0.1)
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data] Package punkt is already up-to-date!
[nltk_data] Downloading package stopwords to /root/nltk_data...
```

```
[nltk_data] Package stopwords is already up-to-date!
[nltk_data] Downloading package wordnet to /root/nltk_data...
[nltk_data] Package wordnet is already up-to-date!
[nltk_data] Downloading package omw-1.4 to /root/nltk_data...
[nltk_data] Package omw-1.4 is already up-to-date!
Collecting en-core-web-sm==3.8.0
  Downloading https://github.com/explosion/spacy-models/releases/download/en\_core\_web\_sm-3.8.0/en\_core\_web\_sm-3.8.0-py3-none-any.whl (12.8 MB)
    12.8/12.8 MB 82.8 MB/s eta 0:00:00
```

✓ Download and installation successful

You can now load the package via `spacy.load('en_core_web_sm')`

⚠ Restart to reload dependencies

If you are in a Jupyter or Colab notebook, you may need to restart Python in order to load all the package's dependencies. You can do this by selecting the 'Restart kernel' or 'Restart runtime' option.

```
import nltk
import spacy
from nltk.tokenize import sent_tokenize, word_tokenize
from nltk.corpus import stopwords
from nltk.stem import PorterStemmer
from nltk.stem import WordNetLemmatizer
```

```
import nltk
nltk.download('punkt_tab')
sentences = sent_tokenize('medical_text')
sentences
```

```
[nltk_data] Downloading package punkt_tab to /root/nltk_data...
[nltk_data] Package punkt_tab is already up-to-date!
['medical_text']
```

```
words = word_tokenize('medical_text')
words
```

```
['medical_text']
```

```
stop_words = set(stopwords.words("english"))
filtered_words = []
for word in words:
    if word.casefold() not in stop_words:
        filtered_words.append(word)
filtered_words
```

```
['medical_text']
```

```
porter = PorterStemmer()
porter_stemmed = [porter.stem(word) for word in filtered_words]
porter_stemmed
```

```
['medical_text']
```

```
lemmatizer = WordNetLemmatizer()
lemmatized_words = [lemmatizer.lemmatize(word) for word in filtered_words]
lemmatized_words
```

```
['medical_text']
```

```
nlp = spacy.load("en_core_web_sm")
doc = nlp('medical_text')
spacy_tokens = [token.text for token in doc]
spacy_tokens
```

```
['medical_text']
```

```
spacy_lemmas = [(token.text, token.lemma_) for token in doc if not token.is_stop]
spacy_lemmas
```

```
[('medical_text', 'medical_text')]
```

```
"NLP= models are transforming the world rapidly"
```

```
'NLP= models are transforming the world rapidly'
```

```
NLP="""The SR University campus is located in Ananthasagar village of Hasanparthy Mandal in Warangal, Telangana, India.
It is in 150 acres, with both separate hostel facilities for boys and girls.
There is a huge central library along with Indias largest Technology Business Incubator (TBI) in tier 2 cities."""
```

```
NLP
```

```
'The SR University campus is located in Ananthasagar village of Hasanparthy Mandal in Warangal, Telangana, India. \nIt is in 150 acres, with both separate hostel facilities for boys and girls. \nThere is a huge central library along with Indias largest Technology Business Incubator (TBI) in tier 2 cities.'
```

```
import nltk
nltk.download('punkt')
from nltk.tokenize import word_tokenize
word_tokenize(NLP)
```

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

```
['The',
 'SR',
 'University',
 'campus',
 'is',
 'located',
 'in',
 'Ananthasagar',
 'village',
 'of',
 'Hasanparthy',
 'Mandal',
 'in',
 'Warangal',
 ',',
 ',',
 'Telangana',
 ',',
 ',',
 'India',
 ',',
 ',',
 '']
```

```

',
'It',
'is',
'in',
'150',
'acres',
',',
'with',
'both',
'separate',
'hostel',
'facilities',
'for',
'boys',
'and',
'girls',
',',
'There',
'is',
'a',
'huge',
'central',
'library',
'along',
'with',
'Indias',
'largest',
'Technology',
'Business',
'Incubator',
'(',
'TBI',
')',
'in',
'tier',
'2',
'cities',
','

```

```

from nltk.tokenize import sent_tokenize
sent_tokenize(NLP)

```

```

['The SR University campus is located in Ananthasagar village of Hasanparthy Mandal in Warangal, Telangana, India.',
'It is in 150 acres, with both separate hostel facilities for boys and girls.',
'There is a huge central library along with Indias largest Technology Business Incubator (TBI) in tier 2 cities.']

```

```

nltk.download("stopwords")
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize

```

```

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

```

```

words_in_quote = word_tokenize(NLP)
words_in_quote

```

```
[ 'The',
  'SR',
  'University',
  'campus',
  'is',
  'located',
  'in',
  'Ananthasagar',
  'village',
  'of',
  'Hasanparthy',
  'Mandal',
  'in',
  'Warangal',
  ',',
  'Telangana',
  ',',
  'India',
  '.',
  'It',
  'is',
  'in',
  '150',
  'acres',
  ',',
  'with',
  'both',
  'separate',
  'hostel',
  'facilities',
  'for',
  'boys',
  'and',
  'girls',
  '.',
  'There',
  'is',
  'a',
  'huge',
  'central',
  'library',
  'along',
  'with',
  'Indias',
  'largest',
  'Technology',
  'Business',
  'Incubator',
  '(',
  'TBI',
  ')',
  'in',
  'tier',
  '2',
  'cities'
```

```
stop_words = set(stopwords.words("english"))
filtered_list = []
for word in words_in_quote:
    if word.casefold() not in stop_words:
        filtered_list.append(word)
filtered_list
```

filtered_list

```
[ 'SR',
  'University',
  'campus',
  'located',
  'Ananthasagar',
  'village',
  'Hasanparthy',
  'Mandal',
  'Warangal',
  ',',
  'Telangana',
  ',',
  'India',
  '.',
  '150',
  'acres',
  ',',
  'separate',
  'hostel',
  'facilities',
  'boys',
  'girls',
  '.',
  'huge',
  'central',
  'library',
  'along',
  'Indias',
  'largest',
  'Technology',
  'Business',
  'Incubator',
  '(',
  'TBI',
  ')',
  'tier',
  '2',
  'cities',
  '.']
```

```
from nltk.stem import PorterStemmer
from nltk.tokenize import word_tokenize
stemmer = PorterStemmer()
words = word_tokenize(NLP)
stemmed_words = [stemmer.stem(word) for word in words]
stemmed_words
```

```
['the',
 'sr',
 'univers',
 'campu',
 'is',
 'locat',
 'in',
 'ananthasagar',
 'villag',
 'of',
```



```
'hasanparthi',
'mandal',
'in',
'warang',
',',
'telangana',
',',
'india',
',',
'it',
'is',
'in',
'150',
'acr',
',',
'with',
'both',
'separ',
'hostel',
'facil',
'for',
'boy',
'and',
'girl',
',',
'there',
'is',
'a',
'huge',
'central',
'librari',
'along',
'with',
'india',
'largest',
'technolog',
'busi',
'incub',
'(',
'tbi',
')',
'in',
'tier',
'2',
'citi',
'.'.]
```

```
from nltk.stem import SnowballStemmer
snowball = SnowballStemmer(language='english')
words = word_tokenize(NLP)
for word in words:
    print(word,"-->",snowball.stem(word))
```

```
The --> the
SR --> sr
University --> univers
campus --> campus
is --> is
located --> locat
in --> in
```

```

Ananthasagar ---> ananthasagar
village ---> villag
of ---> of
Hasanparthy ---> hasanparthi
Mandal ---> mandal
in ---> in
Warangal ---> warang
, ---> ,
Telangana ---> telangana
, ---> ,
India ---> india
. ---> .
It ---> it
is ---> is
in ---> in
150 ---> 150
acres ---> acr
, ---> ,
with ---> with
both ---> both
separate ---> separ
hostel ---> hostel
facilities ---> facil
for ---> for
boys ---> boy
and ---> and
girls ---> girl
. ---> .
There ---> there
is ---> is
a ---> a
huge ---> huge
central ---> central
library ---> librari
along ---> along
with ---> with
Indias ---> india
largest ---> largest
Technology ---> technolog
Business ---> busi
Incubator ---> incub
( ---> (
TBI ---> tbi
) ---> )
in ---> in
tier ---> tier
2 ---> 2
cities ---> citi
. ---> .

```

```

from nltk import LancasterStemmer
Lanc = LancasterStemmer()
words = word_tokenize(NLP)
for word in words:
    print(word,"--->",Lanc.stem(word))

```

```

The ---> the
SR ---> sr
University ---> univers
campus ---> camp
is ---> is

```

```

located ---> loc
in ---> in
Ananthasagar ---> ananthasag
village ---> vil
of ---> of
Hasanparthy ---> hasanparthy
Mandal ---> mand
in ---> in
Warangal ---> warang
, ---> ,
Telangana ---> telangan
, ---> ,
India ---> ind
. ---> .
It ---> it
is ---> is
in ---> in
150 ---> 150
acres ---> acr
, ---> ,
with ---> with
both ---> both
separate ---> sep
hostel ---> hostel
facilities ---> facil
for ---> for
boys ---> boy
and ---> and
girls ---> girl
. ---> .
There ---> ther
is ---> is
a ---> a
huge ---> hug
central ---> cent
library ---> libr
along ---> along
with ---> with
Indias ---> india
largest ---> largest
Technology ---> technolog
Business ---> busy
Incubator ---> incub
( ---> (
TBI ---> tbi
) ---> )
in ---> in
tier ---> tier
2 ---> 2
cities ---> city
. ---> .

```

```

from nltk.stem import RegexpStemmer
regexp = RegexpStemmer('ing|e', min=4)
words = word_tokenize(NLP)
for word in words:
    print(word,"--->",Lanc.stem(word))

```

```

The ---> the
SR ---> sr

```

```

University ---> univers
campus ---> camp
is ---> is
located ---> loc
in ---> in
Ananthasagar ---> ananthasag
village ---> vil
of ---> of
Hasanparthy ---> hasanparthy
Mandal ---> mand
in ---> in
Warangal ---> warang
, ---> ,
Telangana ---> telangan
, ---> ,
India ---> ind
. ---> .
It ---> it
is ---> is
in ---> in
150 ---> 150
acres ---> acr
, ---> ,
with ---> with
both ---> both
separate ---> sep
hostel ---> hostel
facilities ---> facil
for ---> for
boys ---> boy
and ---> and
girls ---> girl
. ---> .
There ---> ther
is ---> is
a ---> a
huge ---> hug
central ---> cent
library ---> libr
along ---> along
with ---> with
Indias ---> india
largest ---> largest
Technology ---> technolog
Business ---> busy
Incubator ---> incub
( ---> (
TBI ---> tbi
) ---> )
in ---> in
tier ---> tier
2 ---> 2
cities ---> city
. ---> .

```

```

nltk.download('omw-1.4')
from nltk.stem import WordNetLemmatizer
lemmatizer = WordNetLemmatizer()
words = word_tokenize(NLP)
for word in words:
    print(word,"--->",lemmatizer.lemmatize(word))

```

```

The ---> The
SR ---> SR
University ---> University
campus ---> campus
is ---> is
located ---> located
in ---> in
Ananthasagar ---> Ananthasagar
village ---> village
of ---> of
Hasanparthy ---> Hasanparthy
Mandal ---> Mandal
in ---> in
Warangal ---> Warangal
, ---> ,
Telangana ---> Telangana
, ---> ,
India ---> India
. ---> .
It ---> It
is ---> is
in ---> in
150 ---> 150
acres ---> acre
, ---> ,
with ---> with
both ---> both
separate ---> separate
hostel ---> hostel
facilities ---> facility
for ---> for
boys ---> boy
and ---> and
girls ---> girl
. ---> .
There ---> There
is ---> is
a ---> a
huge ---> huge
central ---> central
library ---> library
along ---> along
with ---> with
Indias ---> Indias
largest ---> largest
Technology ---> Technology
Business ---> Business
Incubator ---> Incubator
( ---> (
TBI ---> TBI
) ---> )
in ---> in
tier ---> tier
2 ---> 2
cities ---> city
. ---> .
[nltk_data] Downloading package omw-1.4 to /root/nltk_data...
[nltk_data] Package omw-1.4 is already up-to-date!

```

```

lemmatizer.lemmatize("worst")

```

```
'worst'
```

```
lemmatizer.lemmatize("worst", pos="a")
```

```
'bad'
```