```
pip install nltk
```

```
Requirement already satisfied: nltk in /usr/local/lib/python3.10/dist-packages (3.8.1)
Requirement already satisfied: click in /usr/local/lib/python3.10/dist-packages (from nltk) (8.1.7)
Requirement already satisfied: joblib in /usr/local/lib/python3.10/dist-packages (from nltk) (1.4.0)
Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.10/dist-packages (from nltk) (2023.12.25)
Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-packages (from nltk) (4.66.2)
```

```
import nltk
```

```
nltk.download('punkt')
```

```
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data]   Unzipping tokenizers/punkt.zip.
True
```

```
nltk.download("stopwords")
```

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

```
from nltk.corpus import stopwords
```

```
stopwords=stopwords.words('english')
```

```
from nltk import sent_tokenize,word_tokenize
```

```
sent="Hello People My name is Mayuri and Today we will learn how to code in Python!!".lower()
```

```
words=word_tokenize(sent)
words
```

```
['hello',
 'people',
 'my',
 'name',
 'is',
 'mayuri',
 'and',
 'today',
 'we',
 'will',
 'learn',
 'how',
 'to',
 'code',
 'in',
 'python',
 '!',
 '!']
```

```
cleaned_sentence=[]
for word in words:
  if word not in stopwords:
    cleaned_sentence.append(word)
cleaned_sentence
```

```
['hello',
 'people',
 'name',
 'mayuri',
 'today',
 'learn',
 'code',
 'python',
 '!',
 '!']
```

```
from nltk import PorterStemmer
```

```
stemmer=PorterStemmer()
```

```python
stemmed_words=[]
for word in cleaned_sentence:
  stemmed_words.append(stemmer.stem(word))
print(stemmed_words)
```

```
['hello', 'peopl', 'name', 'mayuri', 'today', 'learn', 'code', 'python', '!', '!']
```

```
pip install collection
```

```
Collecting collection
  Downloading collection-0.1.6.tar.gz (5.0 kB)
  Preparing metadata (setup.py) ... done
Building wheels for collected packages: collection
  Building wheel for collection (setup.py) ... done
  Created wheel for collection: filename=collection-0.1.6-py3-none-any.whl size=5099 sha256=cdb11bbd07c208ed41c01ac6081218ec2c0e275c
  Stored in directory: /root/.cache/pip/wheels/a5/70/eb/1d28795e9384ab3b9be6359bdde9e1652f6e7dab9d26844f70
Successfully built collection
Installing collected packages: collection
Successfully installed collection-0.1.6
```

```python
nltk.download('averaged_perceptron_tagger')
```

```
[nltk_data] Downloading package averaged_perceptron_tagger to
[nltk_data]     /root/nltk_data...
[nltk_data]   Unzipping taggers/averaged_perceptron_tagger.zip.
True
```

```python
from nltk import pos_tag
```

```python
pos_tagged=pos_tag(stemmed_words)
print(pos_tagged)
```

```
[('hello', 'NN'), ('peopl', 'NN'), ('name', 'NN'), ('mayuri', 'NN'), ('today', 'NN'), ('learn', 'VBP'), ('code', 'NN'), ('python',
```

```python
from collections import Counter
```

```python
count_dict={}
for word in stemmed_words:
  if word in count_dict:
    count_dict[word]+=1
  else:
    count_dict[word]=1

print(count_dict)
```

```
{'hello': 1, 'peopl': 1, 'name': 1, 'mayuri': 1, 'today': 1, 'learn': 1, 'code': 1, 'python': 1, '!': 2}
```

Start coding or generate with AI.