```python
import nltk
```

```python
from nltk import word_tokenize
from nltk import sent_tokenize
```

```python
text='yo what is up.i am good. how are you?'
```

```python
tokens_words=nltk.word_tokenize(text)
tokens_sent=nltk.sent_tokenize(text)
```

```python
tokens_words
```

    ['yo', 'what', 'is', 'up.i', 'am', 'good', '.', 'how', 'are', 'you', '?']

```python
tokens_sent
```

    ['yo what is up.i am good.', 'how are you?']

Stemmization

```python
from nltk.stem import PorterStemmer
stem=[]
for i in tokens_words:
    ps=PorterStemmer()
    stem_words=ps.stem(i)
    stem.append(stem_words)
print(stem)
```

    ['yo', 'what', 'is', 'up.i', 'am', 'good', '.', 'how', 'are', 'you', '?']

Lemmatization

```python
from nltk.stem import WordNetLemmatizer
lm=WordNetLemmatizer()
leme=[]
for i in stem:
    lem_word=lm.lemmatize(i)
    leme.append(lem_word)
print(leme)
```

    ['yo', 'what', 'is', 'up.i', 'am', 'good', '.', 'how', 'are', 'you', '?']

pos

```python
print(nltk.pos_tag(leme))
```

    [('yo', 'VB'), ('what', 'WP'), ('is', 'VBZ'), ('up.i', 'JJ'), ('am', 'VBP'), ('good', 'JJ'), ('.', '.'), ('how', 'WRB'), ('are', 'VBP'), ('you', 'PRP'), ('?', '.')]

stop word

```
In [35]: from nltk.corpus import stopwords
         sw=stopwords.words('english')
```

```
In [34]: words=[word for word in text.split() if word.lower() not in sw]
         new=" ".join(words)
         print(new)
```

yo up.i good. you?