▾ 1. konlpy 패키지 다운로드

```
!pip install konlpy
```

```
Collecting konlpy
  Downloading konlpy-0.5.2-py2.py3-none-any.whl (19.4 MB)
     |████████████████████████████████| 19.4 MB 1.3 MB/s
Requirement already satisfied: lxml>=4.1.0 in /usr/local/lib/python3.7/dist-packages (from ko
Requirement already satisfied: numpy>=1.6 in /usr/local/lib/python3.7/dist-packages (from kon
Collecting colorama
  Downloading colorama-0.4.4-py2.py3-none-any.whl (16 kB)
Requirement already satisfied: tweepy>=3.7.0 in /usr/local/lib/python3.7/dist-packages (from
Collecting beautifulsoup4==4.6.0
  Downloading beautifulsoup4-4.6.0-py3-none-any.whl (86 kB)
     |████████████████████████████████| 86 kB 5.4 MB/s
Collecting JPype1>=0.7.0
  Downloading JPype1-1.3.0-cp37-cp37m-manylinux_2_5_x86_64.manylinux1_x86_64.whl (448 kB)
     |████████████████████████████████| 448 kB 60.0 MB/s
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.7/dist-packages (f
Requirement already satisfied: six>=1.10.0 in /usr/local/lib/python3.7/dist-packages (from tw
Requirement already satisfied: requests[socks]>=2.11.1 in /usr/local/lib/python3.7/dist-packa
Requirement already satisfied: requests-oauthlib>=0.7.0 in /usr/local/lib/python3.7/dist-pack
Requirement already satisfied: oauthlib>=3.0.0 in /usr/local/lib/python3.7/dist-packages (fro
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from r
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (f
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local/lib/pyth
Requirement already satisfied: PySocks!=1.5.7,>=1.5.6 in /usr/local/lib/python3.7/dist-packag
Installing collected packages: JPype1, colorama, beautifulsoup4, konlpy
  Attempting uninstall: beautifulsoup4
    Found existing installation: beautifulsoup4 4.6.3
    Uninstalling beautifulsoup4-4.6.3:
      Successfully uninstalled beautifulsoup4-4.6.3
Successfully installed JPype1-1.3.0 beautifulsoup4-4.6.0 colorama-0.4.4 konlpy-0.5.2
```

▾ 2. konlpy 관련 패키지 import

```
from konlpy.tag import Okt
from konlpy.tag import Kkma
from konlpy.tag import Hannanum
from konlpy.tag import Komoran
from konlpy.tag import Twitter
from konlpy.tag import Mecab
```

▾ 3. 객체 생성

```
kkma=Kkma()
```

```
okt=Okt()
komoran=Komoran()
hannanum=Hannanum()
twitter=Twitter()
```

```
/usr/local/lib/python3.7/dist-packages/konlpy/tag/_okt.py:16: UserWarning: "Twitter" has chan
  warn('"Twitter" has changed to "Okt" since KoNLPy v0.4.5.')
```

▼ 4. 문장 분리(Kkma only)

```
print("kkma 문장 분리:", kkma.sentences('네 안녕하세요 반갑습니다.'))
```

```
kkma 문장 분리: ['네 안녕하세요', '반갑습니다.']
```

```
print("kkma 문장 분리:", kkma.sentences('네안녕하세요반갑습니다.'))
```

```
kkma 문장 분리: ['네 안녕하세요', '반갑습니다.']
```

▼ 5. 형태소 분석

```
in_str=u"세종대왕님은 글을 만드셨습니다."
```

```
print("okt·형태소·분석:·",okt.morphs(in_str))
print("kkma·형태소·분석:·",kkma.morphs(in_str))
print("hannanum·형태소·분석:·",hannanum.morphs(in_str))
print("komoran·형태소·분석:·",komoran.morphs(in_str))
print("twitter·형태소·분석:·",twitter.morphs(in_str))
```

```
okt 형태소 분석: ['세종대왕', '님', '은', '글', '을', '만드셨습니다', '.']
kkma 형태소 분석: ['세종', '대왕', '님', '은', '글', '을', '만들', '시', '었', '습니다', '.'
hannanum 형태소 분석: ['세종대왕님', '은', '글', '을', '만들', '셨습니다', '.']
komoran 형태소 분석: ['세종대왕', '님', '은', '글', '을', '만들', '시', '었', '습니다', '.']
twitter 형태소 분석: ['세종대왕', '님', '은', '글', '을', '만드셨습니다', '.']
```

▼ 6. 품사 태깅

```
print("okt 품사태깅 분석: ",okt.pos(in_str))
print("kkma 품사태깅 분석: ",kkma.pos(in_str))
print("hannanum 품사태깅 분석: ",hannanum.pos(in_str))
print("komoran 품사태깅 분석: ",komoran.pos(in_str))
print("twitter 품사태깅 분석: ",twitter.pos(in_str))
```

```
okt 품사태깅 분석: [('세종대왕', 'Noun'), ('님', 'Suffix'), ('은', 'Josa'), ('글', 'Noun'),
kkma 품사태깅 분석: [('세종', 'NNG'), ('대왕', 'NNG'), ('님', 'XSN'), ('은', 'JX'), ('글', '
```

```
hannanum 품사태깅 분석:  [('세종대왕님', 'N'), ('은', 'J'), ('글', 'N'), ('을', 'J'), ('만들'
komoran 품사태깅 분석:  [('세종대왕', 'NNP'), ('님', 'XSN'), ('은', 'JX'), ('글', 'NNG'), ('을
twitter 품사태깅 분석:  [('세종대왕', 'Noun'), ('님', 'Suffix'), ('은', 'Josa'), ('글', 'Noun
```

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