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```
In [8]:
           #task 2: tweettokenizer
           import nltk
           from nltk.tokenize import TweetTokenizer
           text='NLP Class Session is Amazing: D #superfun'
           twtkn=TweetTokenizer()
           twtkn.tokenize(text)
Out[8]: ['NLP', 'Class', 'Session', 'is', 'Amazing', ':', 'D', '#superfun']
In [7]:
           #Task 1 - Lexicons
           #1. Stopwords:
           from nltk.corpus import stopwords
           stopwords.words('english')
Out[7]: ['i',
           'me',
           'my',
           'myself',
           'we',
'our',
'ours',
           'ourselves',
           'you',
           "you're",
           "you've"
           "you'll",
           "you'd",
           'your',
'yours',
           'yourself',
           'yourselves',
           'he',
'him',
'his',
           'himself',
           'she',
           "she's",
           'her',
'hers',
           'herself',
           'it',
"it's",
           'its',
           'itself',
           'they',
           'them',
'their',
'theirs',
           'themselves',
           'what',
           'which',
           'who',
           'this',
           'that',
"that'll",
           'these',
           'those',
           'am',
'is',
'are',
'was',
'were',
```

'be',

'been', 'being', 'have', 'has', 'had', 'having', 'do', 'does', 'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or', 'because', 'as', 'until', 'while', 'of', 'at', 'by',
'for',
'with', 'about['], 'against', 'between', 'into', 'through', 'during', 'before', 'after', 'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out['], 'on', 'off', 'over', 'under', 'again', 'further', 'then', 'once', 'here', 'there', 'when', 'where', 'why',
'how',
'all', 'any', 'each', 'few', 'more', 'most',
'other', 'some', 'such', 'no',
'nor',
'not',

```
'only',
'own',
'same',
'so',
'than',
'too',
'very',
's',
't',
'can',
'will',
'just',
'don',
"don't",
'should',
"should've",
'now',
'd',
'11',
'm',
'o',
're',
've',
'y',
'ain',
'aren',
"aren't",
'couldn',
"couldn't",
'didn',
"didn't",
'doesn',
"doesn't",
'hadn',
"hadn't",
'hasn',
"hasn't",
'haven',
"haven't",
'isn',
"isn't",
'ma',
'mightn',
"mightn't",
'mustn',
"mustn't",
'needn',
"needn't",
'shan',
"shan't",
'shouldn',
"shouldn't",
'wasn',
"wasn't",
'weren',
"weren't",
'won',
"won't",
'wouldn',
"wouldn't"]
#2 CMU Wordlist
import nltk
entries=nltk.corpus.cmudict.entries()
len(entries)
```

Out[9]: 133737

In [9]:

```
In [10]:
```

print(entries[:100])

[('a', ['AH0']), ('a.', ['EY1']), ('a', ['EY1']), ('a42128', ['EY1', 'F', 'A01', 'R', 'T', 'UW1', 'W', 'AH1', 'N', 'T', 'UW1', 'EY1', 'T']), ('aaa', ['T', 'R', 'IH 2', 'P', 'AH0', 'L', 'EY1']), ('aaberg', ['AA1', 'B', 'ER0', 'G']), ('aachen', ['AA 1', 'K', 'AH0', 'N']), ('aachener', ['AA1', 'K', 'AH0', 'N', 'ER0']), ('aachener', ['AA1', 'K', 'AH0', 'N', 'ER0']), ('aarodt', ['AA1', 'K', 'ER0']), ('aarodt', ['AA1', 'M', 'AH0', 'T']), ('aarocor', ['AA1', 'N', 'K', 'A02', 'R']), ('aardema', ['AA0', 'K', 'D', 'EH1', 'M', 'AH0']), ('aardvark', ['AA1', 'R', 'D', 'V', 'AA2', 'R', 'K']), ('aarons', ['EH1', 'R', 'AH0', 'N']), ("aarons', ['EH1', 'R', 'AH0', 'N', 'Z']), ('aaronson', ['EH1', 'R', 'AH0', 'N', 'S', 'AH0', 'N']), ("aaronson's", ['EH1', 'R', 'AH0', 'N', 'Z']), ('aaronson's", ['EH1', 'R', 'AH0', 'N', 'Z']), ('aaronson's", ['AA1', 'R', 'AH0', 'N']), ('aaronson's", ['AA1', 'R', 'AH0', 'N', 'Z']), ('aaronson's", ['AA1', 'R', 'AH0', 'N']), ('absen', ['AA1', 'R', 'AH0', 'N']), ('absen', ['AA1', 'S', 'AH0', 'N']), ('ab', ['AE1', 'B']), ('absen', ['AA1', 'B', 'AH0']), ('ababa', ['AA1', 'B', 'AH0']), ('aback', ['AE1', 'B', 'AH0', 'B', 'AE1', 'K']), ('aback', ['AE1', 'B', 'AH0', 'B', 'AE1', 'B', 'AH0', 'B', 'AA1', 'D']), ('aback', ['AE1', 'B', 'AH0', 'B', 'AE1', 'D', 'IY0']), ('abadi', ['AH0', 'B', 'AE1', 'D', 'IY0']), ('abalone', ['AE2', 'B', 'AH0', 'L', 'OH0', 'B', 'AA1', 'L', 'OH0', 'B', 'AH0', 'B', 'AH1', 'L', 'OH0', 'B', 'AH0', 'B', 'AH0', 'B', 'AH1', 'L', 'OH0', 'B', 'AH1', 'L', 'OH0', 'B', 'AH1', 'B', 'AH1', 'L', 'OH0', 'B', 'AH1', 'B', 'AH1', 'L', 'OH0', 'B', 'AH1', Re]), ('abalkin', ['AHe', 'B', 'AA1', 'L', 'K', 'THe', 'N']), ('abalone', ['AE2', 'B', 'AA1', 'L', 'Owd', 'Z']), ('abandon', ['AHe', 'B', 'AE1', 'N', 'D', 'AHe', 'N', 'The', 'Nc']), ('abandonment', ['AHe', 'B', 'AE1', 'N', 'D', 'AHe', 'N', 'M', 'AHe', 'N', 'T', 'S']), ('abandonment's, ['AHe', 'B', 'AE1', 'N', 'D', 'AHe', 'N', 'Z']), ('abanto', ['AHe', 'B', 'AE1', 'N', 'D', 'AHe', 'N', 'Z']), ('abanto', ['AHe', 'B', 'AE1', 'N', 'D', 'AHe', 'N', 'Z']), ('abanto', ['AHe', 'B', 'AE1', 'N', 'D', 'AHe', 'N', 'Z']), ('abanto', ['AHe', 'B', 'AE1', 'N', 'T', 'Owe']), ('abarca', ['AHe', 'B', 'AE1', 'S', 'AA1', 'R', 'IYe']), ('abarca', ['AHe', 'B', 'AE1', 'S', 'AHe', 'N', 'Z']), ('abarca', ['AHe', 'B', 'AE1', 'S', 'AHe', 'B', 'AE1', 'T', 'N', 'AHe', 'B', 'AE1', 'T', 'N', 'AHe', 'B', 'AE1', 'B', '

In [12]:

#3 Wordnet

from nltk.corpus import wordnet as wn wn.synsets('motorcar')

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```
Out[12]: [Synset('car.n.01')]
In [13]:
            wn.synset('car.n.01').lemma names()
Out[13]: ['car', 'auto', 'automobile', 'machine', 'motorcar']
In [14]:
            wn.synsets('good')
Out[14]: [Synset('good.n.01'),
            Synset('good.n.02'),
            Synset('good.n.03'),
            Synset('commodity.n.01'),
            Synset('good.a.01'),
            Synset('full.s.06'),
            Synset('good.a.03'),
            Synset('estimable.s.02'),
            Synset('beneficial.s.01'),
            Synset('good.s.06'),
            Synset('good.s.07'),
Synset('adept.s.01'),
            Synset('good.s.09'),
            Synset('dear.s.02'),
            Synset('dependable.s.04'),
            Synset('good.s.12'),
            Synset('good.s.13'),
Synset('effective.s.04'),
            Synset('good.s.15'),
            Synset('good.s.16'),
Synset('good.s.17'),
            Synset('good.s.18'),
            Synset('good.s.19'),
            Synset('good.s.20'),
Synset('good.s.21'),
Synset('well.r.01'),
            Synset('thoroughly.r.02')]
In [15]:
            wn.synset('dependable.s.04').lemma_names()
           ['dependable', 'good', 'safe', 'secure']
Out[15]:
 In [0]:
```