Execute and test your model

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Project Name	Predicting the energy output of wind turbine based on weather condition

PROGRAM:

```
# Python3 program for a word frequency
# counter after crawling/scraping a web-page
import requests
from bs4 import BeautifulSoup
import operator
from collections import Counter
'''Function defining the web-crawler/core
spider, which will fetch information from
a given website, and push the contents to
the second function clean_wordlist()'''
def start(url):
    # empty list to store the contents of
    # the website fetched from our web-crawler
    wordlist = []
    source_code = requests.get(url).text
   # BeautifulSoup object which will
    # ping the requested url for data
    soup = BeautifulSoup(source_code, 'html.parser')
   # Text in given web-page is stored under
    # the <div> tags with class <entry-content>
    for each_text in soup.findAll('div', {'class': 'entry-content'}):
        content = each_text.text
        # use split() to break the sentence into
        # words and convert them into lowercase
        words = content.lower().split()
        for each_word in words:
            wordlist.append(each_word)
        clean_wordlist(wordlist)
```

Function removes any unwanted symbols

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def clean_wordlist(wordlist):
    clean list = []
    for word in wordlist:
        symbols = "!@#$%^&*()_-+={[}]|\;:\"<>?/., "
        for i in range(len(symbols)):
            word = word.replace(symbols[i], '')
        if len(word) > 0:
            clean list.append(word)
    create_dictionary(clean_list)
# Creates a dictionary containing each word's
# count and top_20 occurring words
def create_dictionary(clean_list):
    word_count = {}
    for word in clean_list:
        if word in word_count:
            word_count[word] += 1
        else:
            word_count[word] = 1
    ''' To get the count of each word in
        the crawled page -->
    # operator.itemgetter() takes one
    # parameter either 1(denotes keys)
    # or 0 (denotes corresponding values)
    for key, value in sorted(word count.items(),
                    key = operator.itemgetter(1)):
        print ("% s : % s " % (key, value))
    <--
    c = Counter(word_count)
    # returns the most occurring elements
    top = c.most common(10)
    print(top)
# Driver code
if __name__ == '__main__':
    url = "https://www.geeksforgeeks.org/programming-language-choose/"
    # starts crawling and prints output
 start(url)
```