```
import pandas as pd
file_path = "quora_questions.csv"
data_set = pd.read_csv(file_path)
data_set.head()
₹
                                               Ouestion
                                                           \blacksquare
      0
             What is the step by step guide to invest in sh...
           What is the story of Kohinoor (Koh-i-Noor) Dia...
      2 How can I increase the speed of my internet co...
       3 Why am I mentally very lonely? How can I solve...
            Which and discalve in water quikly sugar salt
import nltk
import string
import re
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize
from \ nltk.stem \ import \ WordNetLemmatizer
#Removing special characters and convert to lowercase
def clean text(text):
    return re.sub(r'[^a-zA-Z\s]', '', text).lower()
data_set['Cleaned_Questions'] = data_set['Question'].apply(clean_text)
data_set
→
                                                      Question
                                                                                            Cleaned_Questions
                                                                                                                   扁
         0
                    What is the step by step guide to invest in sh...
                                                                     what is the step by step guide to invest in sh...
                                                                                                                   ıl.
                  What is the story of Kohinoor (Koh-i-Noor) Dia...
         1
                                                                    what is the story of kohinoor kohinoor diamond
         2
                  How can I increase the speed of my internet co...
                                                                   how can i increase the speed of my internet co...
         3
                 Why am I mentally very lonely? How can I solve...
                                                                    why am i mentally very lonely how can i solve it
         4
                    Which one dissolve in water quikly sugar, salt...
                                                                    which one dissolve in water quikly sugar salt ...
       404284
               How many keywords are there in the Racket prog...
                                                                 how many keywords are there in the racket prog...
       404285
                           Do you believe there is life after death?
                                                                             do you believe there is life after death
                                              What is one coin?
       404286
                                                                                                what is one coin
       404287
                    What is the approx annual cost of living while...
                                                                     what is the approx annual cost of living while...
       404288
                             What is like to have sex with cousin?
                                                                               what is like to have sex with cousin
      404200 roug v 2 column
# Removing stopwords
nltk.download('stopwords')
stop_words = set(stopwords.words('english'))
def stopwords_removal(text):
    words = text.split()
    filtered_words = []
    for word in words:
         if word not in stop_words:
             filtered_words.append(word)
    return ' '.join(filtered_words)
data_set['Cleaned_Questions'] = data_set['Cleaned_Questions']. apply(stopwords_removal)
data set
```

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

Cleaned_Questions	Question	
step step guide invest share market india	What is the step by step guide to invest in sh	0
story kohinoor kohinoor diamond	What is the story of Kohinoor (Koh-i-Noor) Dia	1
increase speed internet connection using vpn	How can I increase the speed of my internet co	2
mentally lonely solve	Why am I mentally very lonely? How can I solve	3
one dissolve water quikly sugar salt methane c	Which one dissolve in water quikly sugar, salt	4
many keywords racket programming language late	How many keywords are there in the Racket prog	104284
believe life death	Do you believe there is life after death?	404285
one coin	What is one coin?	404286
approx annual cost living studying uic chicago	What is the approx annual cost of living while	404287
like sex cousin	What is like to have sex with cousin?	404288

404289 rows × 2 columns

#Tokenization
nltk.download('punkt')
data_set['tokenized_words'] = data_set['Cleaned_Questions'].apply(word_tokenize)
data_set.head()

[nltk_data] Downloading package punkt to /root/nltk_data... [nltk_data] Package punkt is already up-to-date!

tokenized_words	Cleaned_Questions	Question	
[step, step, guide, invest, share, market, india]	step step guide invest share market india	What is the step by step guide to invest in sh	0
[story, kohinoor, kohinoor, diamond]	story kohinoor kohinoor diamond	1 What is the story of Kohinoor (Koh-i-Noor) Dia	1
[increase, speed, internet, connection, using,	increase speed internet connection using vpn	2 How can I increase the speed of my internet co	2
[mentally, lonely, solve]	mentally lonely solve	Why am I mentally very lonely? How can I solve	3
[one, dissolve, water, quikly, sugar, salt, me	one dissolve water quikly sugar salt methane c	Which one dissolve in water quikly sugar, salt	4

Start coding or generate with AI.

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