```
pip install numpy scikit-learn nltk
     Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (1.22.4)
     Requirement already satisfied: scikit-learn in /usr/local/lib/python3.10/dist-packages (1.2.2)
     Requirement already satisfied: nltk in /usr/local/lib/python3.10/dist-packages (3.8.1)
     Requirement already satisfied: scipy>=1.3.2 in /usr/local/lib/python3.10/dist-packages (from scikit-learn) (1.10.1)
    Requirement already satisfied: joblib>=1.1.1 in /usr/local/lib/python3.10/dist-packages (from scikit-learn) (1.2.0)
     Requirement already satisfied: threadpoolctl>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from scikit-learn) (3.1.0)
     Requirement already satisfied: click in /usr/local/lib/python3.10/dist-packages (from nltk) (8.1.3)
     Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.10/dist-packages (from nltk) (2022.10.31)
     Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-packages (from nltk) (4.65.0)
import numpy as np
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine_similarity
import nltk
from nltk.corpus import stopwords
from nltk.tokenize import word tokenize
nltk.download('stopwords')
nltk.download('punkt')
     [nltk_data] Downloading package stopwords to /root/nltk_data...
     [nltk data] Unzipping corpora/stopwords.zip.
     [nltk_data] Downloading package punkt to /root/nltk_data...
     [nltk_data]
                  Unzipping tokenizers/punkt.zip.
    True
def preprocess_text(text):
    stop words = set(stopwords.words('english'))
   tokens = word_tokenize(text.lower())
   tokens = [token for token in tokens if token.isalnum() and token not in stop_words]
    return ' '.join(tokens)
def calculate_cosine_similarity(doc1, doc2):
   tfidf_vectorizer = TfidfVectorizer()
   tfidf matrix = tfidf_vectorizer.fit_transform([doc1, doc2])
   cosine_sim = cosine_similarity(tfidf_matrix[0], tfidf_matrix[1])[0][0]
   return cosine_sim
document1 = input("Enter the first document: ")
document2 = input("Enter the second document: ")
     Enter the first document: Hi I am Annie
    Enter the second document: Hi I am Annie
processed_doc1 = preprocess_text(document1)
processed_doc2 = preprocess_text(document2)
similarity = calculate_cosine_similarity(processed_doc1, processed_doc2)
threshold = 0.8 # Adjust the threshold as per your requirements
if similarity > threshold:
  print("Plagiarism detected!")
else:
   print("No plagiarism detected.")
Plagiarism detected!
print('The percentage similarity is:',similarity*100)
    The percentage similarity is: 100.000000000000003
```

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