```
import requests
def shingles(doc, n):
   # create a dictionary of shingles for each doc
   doc dictionary = {}
   for i in range(len(doc)):
       # set the doc id for each doc
        docID = 'doc' + str(i)
       # get all words
       words = doc[i]
       # define the set of shingles for each doc
        shinglewords = set()
       # loop through all char in words
        shingles = []
        for j in range(len(words) - n + 1):
            shingles = words[j: j + n]
            shingles = ''.join(shingles)
            if shingles not in shinglewords:
                shinglewords.add(shingles)
       doc_dictionary[docID] = shinglewords
   return doc dictionary
def remove stop words(doc):
   stopwords_list = requests.get("https://gist.githubusercontent.com/rg089/35e00abf8941d72d4
   stopwords = set(stopwords list.decode().splitlines())
   stopwords = list(stopwords)
   res = []
   for word in doc.split(" "):
        if word not in stopwords:
            res.append(word)
   return ' '.join(res)
def jaccard dictance(s1, s2):
   intersect = len(list(s1.intersection(s2)))
   union = (len(s1) + len(s2)) - intersect
   res = intersect / union
   return res
```

```
doc1 = 'Life is suffering'
doc2 = 'Suffering builds character'
doc3 = 'Character is the essence of life'
docs = \{\}
new doc1 = remove stop words(doc1.lower())
new_doc2 = remove_stop_words(doc2.lower())
new_doc3 = remove_stop_words(doc3.lower())
docs[0] = new_doc1
docs[1] = new doc2
docs[2] = new_doc3
new_docs = shingles(docs, 2)
print('distance bewteen doc1 and doc2: ', jaccard_dictance(new_docs['doc1'], new_docs['doc0']
print('distance bewteen doc1 and doc3: ', jaccard_dictance(new_docs['doc0'], new_docs['doc2']
print('distance bewteen doc3 and doc2: ', jaccard_dictance(new_docs['doc2'], new_docs['doc1']
    distance bewteen doc1 and doc2: 0.2857142857142857
     distance bewteen doc1 and doc3: 0.17857142857142858
     distance bewteen doc3 and doc2: 0.25
```