



book1:book1	book1:book2	book1:book3	book1:book4	book1:book5
book2:book1	book2:book2	book2:book3	book2:book4	book2:book5
book3:book1	book3:book2	book3:book3	book3:book4	book3:book5
book4:book1	book4:book2	book4:book3	book4:book4	book4:book5
book5:book1	book5:book2	book5:book3	book5:book4	book5:book5

## **TF IDF MATRIX**

```
corpus = ["This is the first document.", "This document is the seco
nd document.", "And this is the third one."]

# Create a TfidfVectorizer object
vectorizer = TfidfVectorizer()

# Transform the corpus into a TF-IDF matrix
tfidf_matrix = vectorizer.fit_transform(corpus)

# Print the shape of the matrix
print(tfidf_matrix.shape)

# Output: each row represent a description
# (3, 20) each coloumn represent a word

# Print the matrix
print(tfidf_matrix.toarray())

# Output:
# [[0.37437956 0. 0.37437956 0.37437956 0.37437956 0.
# 0. 0. 0. 0.37437956 0.
# 0. 0. 0. 0. 0.37437956 0.
# 0. 0. 0. 0.37437956 0.
```