Tutorial 1: TF-IDF

1. Consider these documents:

Doc1	breakthrough drug for schizophrenia
Doc2	new schizophrenia drug
Doc3	new approach for treatment of schizophrenia
Doc4	new hopes for schizophrenia patients

- a. Draw a term-document count matrix for the document collection
- b. Calculate the inverse document frequencies of the terms in the document collection
- c. Draw a term-document TF-IDF weighted matrix for the document collection
- d. Find the document in the collection that is the closest to the new document "schizophrenia drug" by using cosine similarity between the TF-IDF vectors of the documents
- 2. Read, understand and re-run the example implementation of sentiment analysis of movie reviews by using binary or TF-IDF vectors at

https://drive.google.com/file/d/1DyDKHSg6yTpDNQgv5bMfZKi-VDvCHVkL/view?usp=sharing