Assignment 1

To implement an Inverted Index model in python, apply these steps to the given documents:

> **Doc 1: The cat in the hat**
>
> **Doc 2: The cat sat on the mat**
>
> **Doc 3: The dog ate my homework**
>
> **Doc 4: I hate cats and dogs**

Step 1: Prepare the data

You need to prepare the data for indexing and retrieval. This involves reading in the documents, preprocessing them (**tokenization**, **stopwords removal**, **stemming and Lower Case**) using NLTK library, and storing them in a data structure that can be indexed.

Step 2: Build the index

The index is typically an inverted index, which maps each term to the documents that contain that term.