Importing Libraries and Dataset

The first step is to import the libraries required to execute the scripts, along with the dataset. The following code imports the required libraries:

```
import nltk, nltk.stopwords, string, re
import numpy as np
import pandas
import gensim
import gensim.corpora
import gensim.models.ldamodel
from nltk.tokenize import RegexpTokenizer
[nltk_data] Error loading punkt: <urlopen error [Errno 11001] getaddrinfo failed>
[nltk_data] Error loading stopwords: <urlopen error [Errno 11001] getaddrinfo failed>
[nltk_data] Error loading wordnet: <urlopen error [Errno 11001] getaddrinfo failed>
[nltk_data] Error loading averaged_perceptron_tagger: <urlopen error [Errno 11001] getaddrinfo failed>
[nltk_data] Error loading maxent_ne_chunker: <urlopen error [Errno 11001] getaddrinfo failed>
[nltk_data] Error loading words: <urlopen error [Errno 11001] getaddrinfo failed>
[nltk_data] Error loading punkt_tab: <urlopen error [Errno 11001] getaddrinfo failed>
[nltk_data] Error loading stopwords: <urlopen error [Errno 11001] getaddrinfo failed>
[nltk_data] Error loading wordnet: <urlopen error [Errno 11001] getaddrinfo failed>
[nltk_data] Error loading averaged_perceptron_tagger_eng: <urlopen error [Errno 11001] getaddrinfo failed>
[nltk_data] Error loading maxent_ne_chunker_tab
```

```
In [24]: from gensim.models.word2vec import Word2Vec
```

```
In [25]: sentence = [
    "the",
    "quick",
    "brown",
    "fox",
    "jumped",
    "over",
    "the",
    "lazy",
    "dog",
    "and",
    "then",
    "ran",
    "away",
    "quickly",
    "the",
    "quick",
    "brown",
    "fox
```

```
In [28]: df_sample[[cols_dict_gdp_deflator_number]]
```

```
Out[28]:
        gdp_deflator
0                 NaN
1                 NaN
2                 NaN
3                 NaN
4                 NaN
5                 NaN
6                 NaN
7                 NaN
8                 NaN
9                 NaN
10                NaN
11                NaN
12                NaN
13                NaN
14                NaN
15                NaN
16                NaN
17                NaN
18                NaN
19                NaN
```

```
    "mathematical",
    "matrix",
    "matrix",
    "matrix
```