 **Approach to the Solution**:

To address the requirements, I first identified the key tasks: sentiment analysis and readability analysis. For sentiment analysis, I used the VADER sentiment analyzer from NLTK, which doesn't require labeled data for training. For readability analysis, I implemented functions to calculate various readability metrics such as average sentence length, percentage of complex words, and Fog Index. Additionally, I included functionality to load custom stopwords and dictionaries for sentiment analysis. The main function orchestrates the processing of articles, sentiment analysis, readability analysis, and saving of results.

File informations  
  
Extraction.py – use for extract data from articles from given links

Text\_Analysis.py – use for Analysis of text and score

Main.py – use to run the this all files at once

 **Running the .py File**:

To run the .py file and generate output, follow these steps:

* Ensure you have Python installed on your system.
* Install the required dependencies:

pip install nltk pandas

* Download the NLTK resources by running the following commands in Python:

import nltk

nltk.download('punkt')

nltk.download('vader\_lexicon')

* Place the .py file in the desired directory.
* Place the required input files (e.g., "Output Data Structure.xlsx", "MasterDictionary/positive-words.txt", "MasterDictionary/negative-words.txt", article text files) in the appropriate folders as specified in the code.
* Run the .py file using Python:

python main.py