Approach to the Solution:

1. Data Extraction:

- Utilized the 'requests' library to fetch content from the provided URLs.
- Employed 'BeautifulSoup' for HTML parsing and extracted article text from paragraphs.

2. Text Analysis:

- Performed sentiment analysis using positive and negative word dictionaries.
- Calculated readability metrics such as average sentence length, percentage of complex words, and fog index.
- Extracted information like average word length, personal pronouns, etc.

3. Handling Additional Stopwords:

 Integrated various stop words lists (e.g., StopWords_Auditor.txt, StopWords_Currencies.txt) for comprehensive text cleaning.

4. Output Structure:

 Followed the structure outlined in "Output Data Structure.xlsx" for the final output.

How to Run the .py File:

1. Dependencies:

• Ensure you have the necessary dependencies installed. Run the following command to install them:

pip install requests beautifulsoup4 nltk pandas syllables pip install syllables

2. Execution:

- Place the .py file, input data file (Input.xlsx), and additional stopwords files in the same directory.
- Run the .py file in a Python environment:

python assignment.py

3. Output:

• The script will generate an output file (Output.xlsx or Output.csv) with the computed metrics for each URL.

Additional Notes:

- Ensure an internet connection for web scraping.
- Verify that all files are in the same directory to avoid file path issues.