Module 2:Extracting, Cleaning and Preprocessing Data

Case Study

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- 1. Write a program to enter a string from user and perform following tasks
 - Write a python function named "Tokenize" which returns the tokenized string
 - Print tokens along with the frequency of each token using the above function
 - Print the 5 least occurring tokens
- 2. Write a program to enter a string from user and perform following tasks.
 - Write a python function named "RemoveStopWords" which returns the string after removing stop words
 - Count frequency of each stop word present in a string using the above function
 - Plot a bar graph depicting stop words and their frequencies
- 3. Write a program to enter a string from user and perform following tasks
 - Write a python function named "Lemmatize" which returns a string after lemmatizing the string.
 - Write a python function named "Stemmed" which returns a string after stemming the string.
 (Use any stemmer of your preference)
 - Print all the words along with their lemmatized and stemmed form using the above functions
 - Save these results in a csv file having 3 columns:

Original Word	Lemmatized Form	Stemmed Form
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- 4. Create a python file named "PreProcess" and perform the following tasks.
 - Copy the function "Tokenize" in this file from question 1
 - Copy the function "RemoveStopWords" in this file from question 2
 - Copy the function "Lemmatize" in this file from question 3

Create a function named "Refine" which accepts a string and call the above 3 functions in the same order i.e. first Tokenize then RemoveStopWords then Lemmatize.

Remember:

- >Inputted string will be input to Tokenize Function
- > Tokenized String will be input to RemoveStopWords function
- > StopWordsRemoved string will be input to Lemmatize function

Save this python file as PreProcess and you can use this for upcoming assignments.