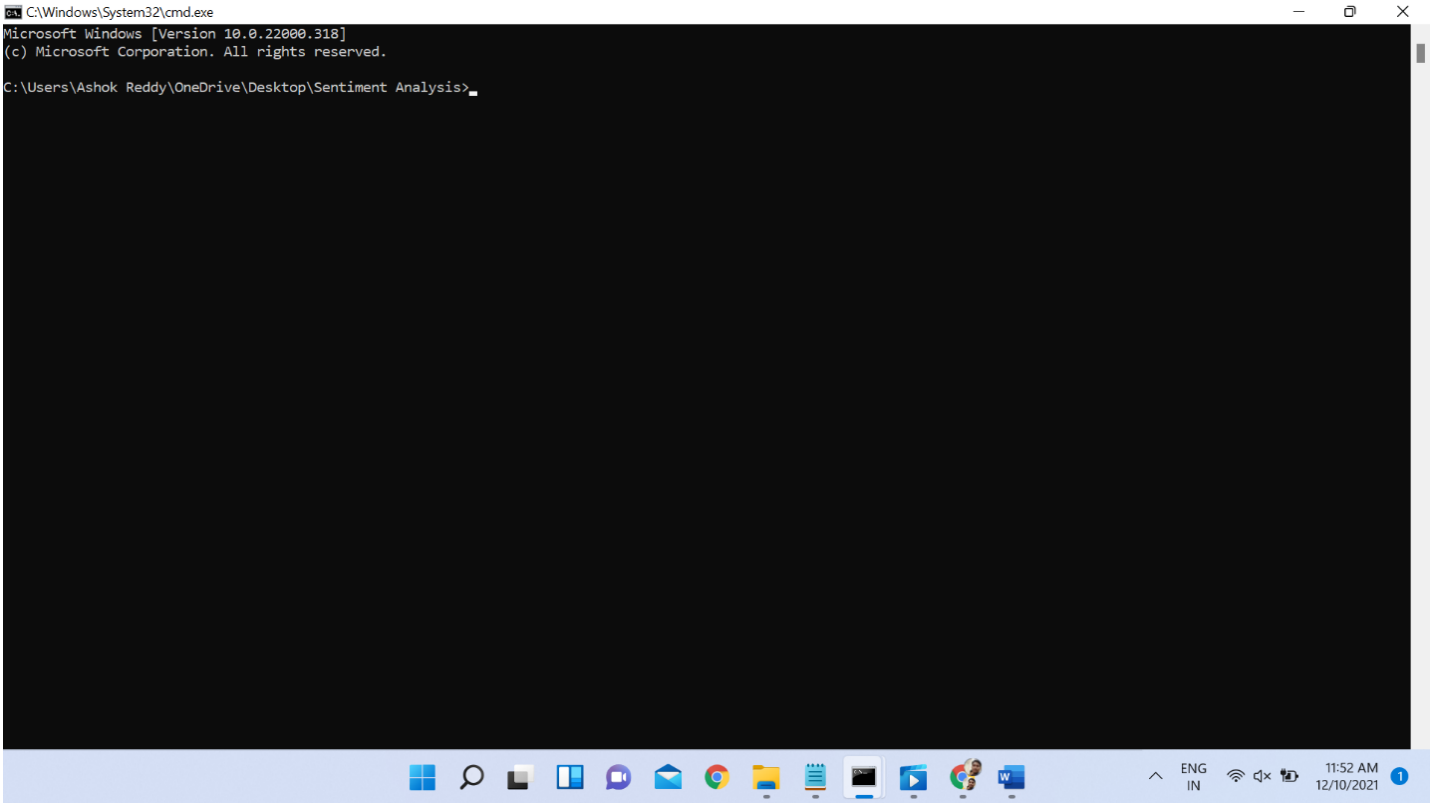
Execution of Sentiment Analysis

Installation

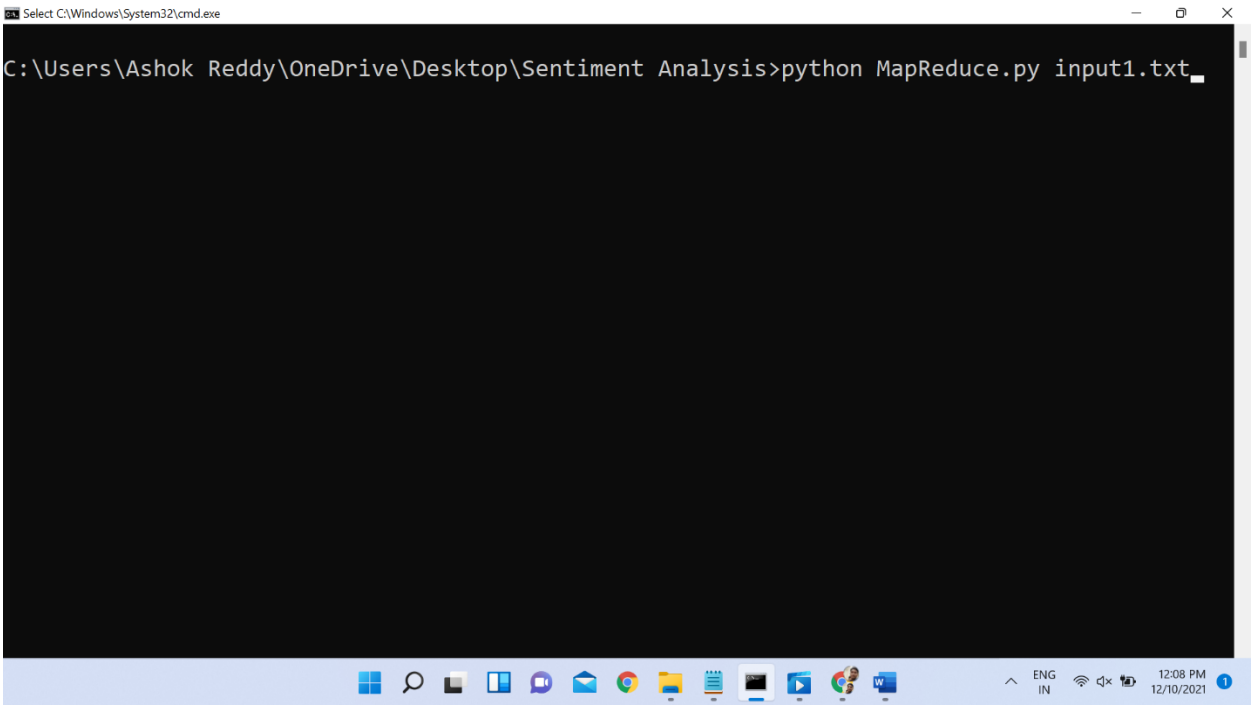
- Install python on your PC
- Open command prompt on windows
- Start Windows PowerShell session in a Command Prompt window by command PowerShell.exe
- Install mrjob by command pip install mrjob
- Install pandas by command pip install pandas
- Install nltk library by command pip install nltk
- Install matplotlib by command pip install matplotlib
- Import nltk to python
- Download package vader_lexicon by nltk.download('vader_lexicon')
- Download package punkt by nltk.download('punkt')

Execution

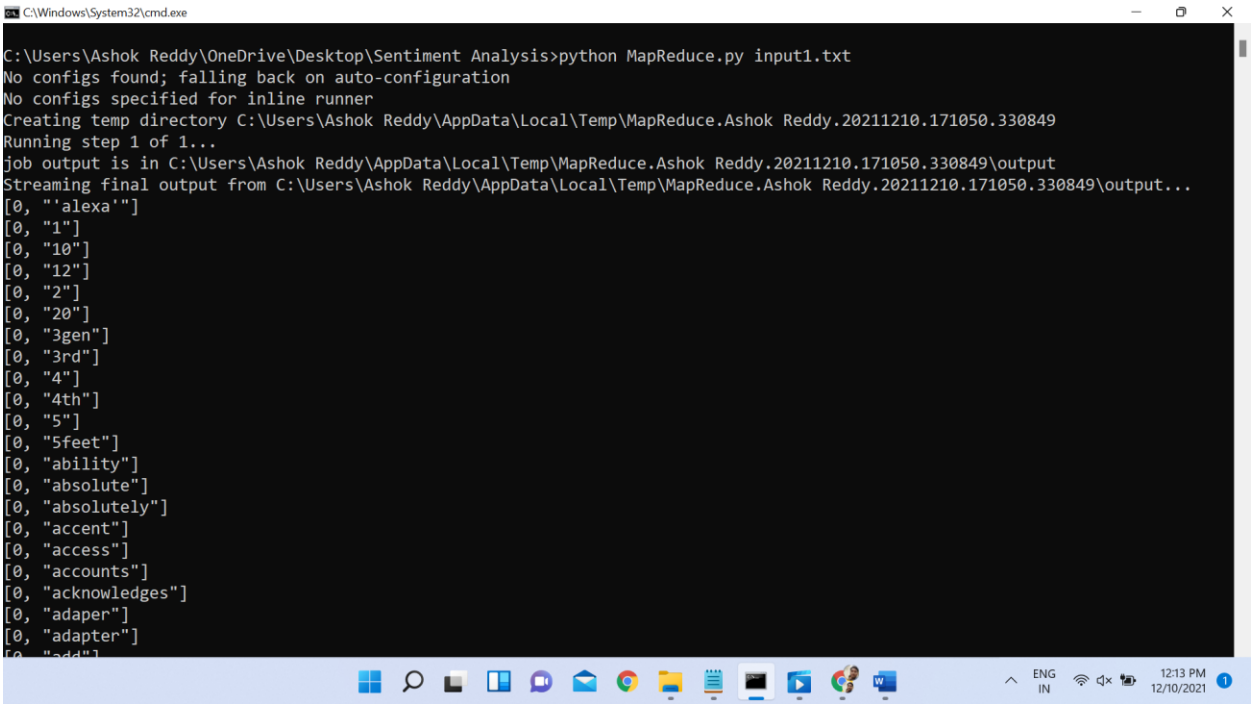
1. Open command prompt and set path for project folder



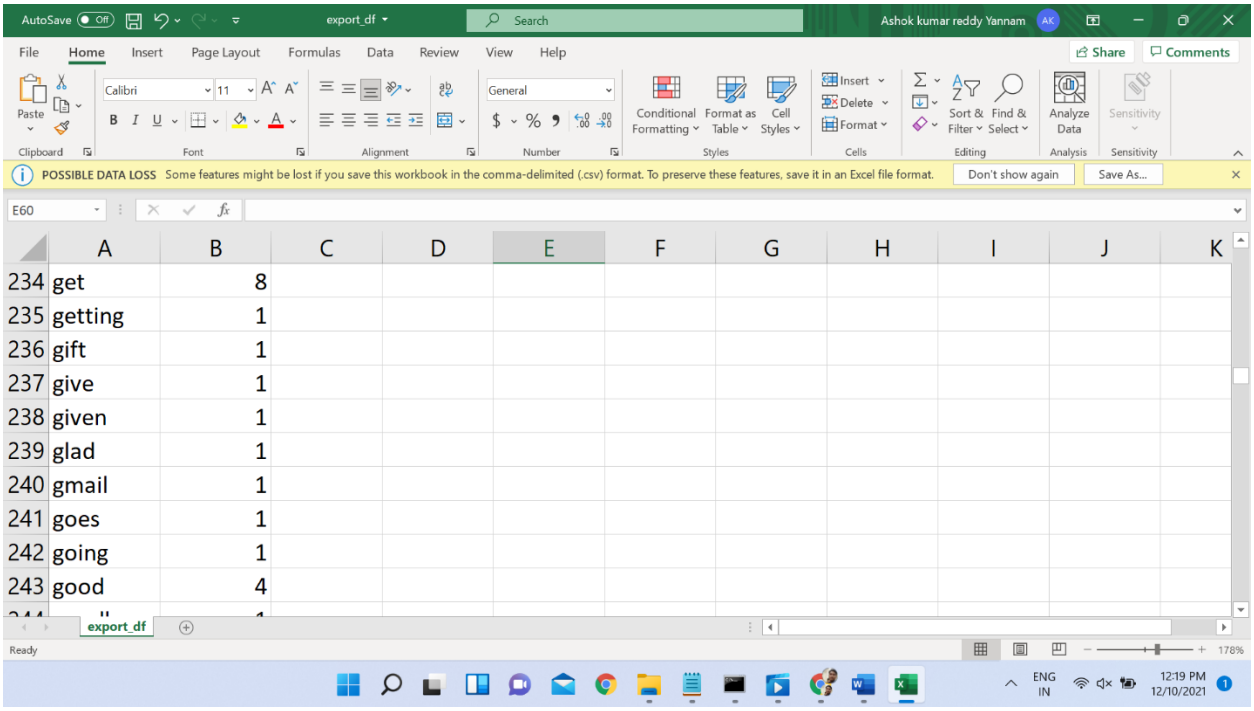
2. Provide input file path to the MapReduce program
   In my case: Command- python MapReduce.py input1.txt



Output: -

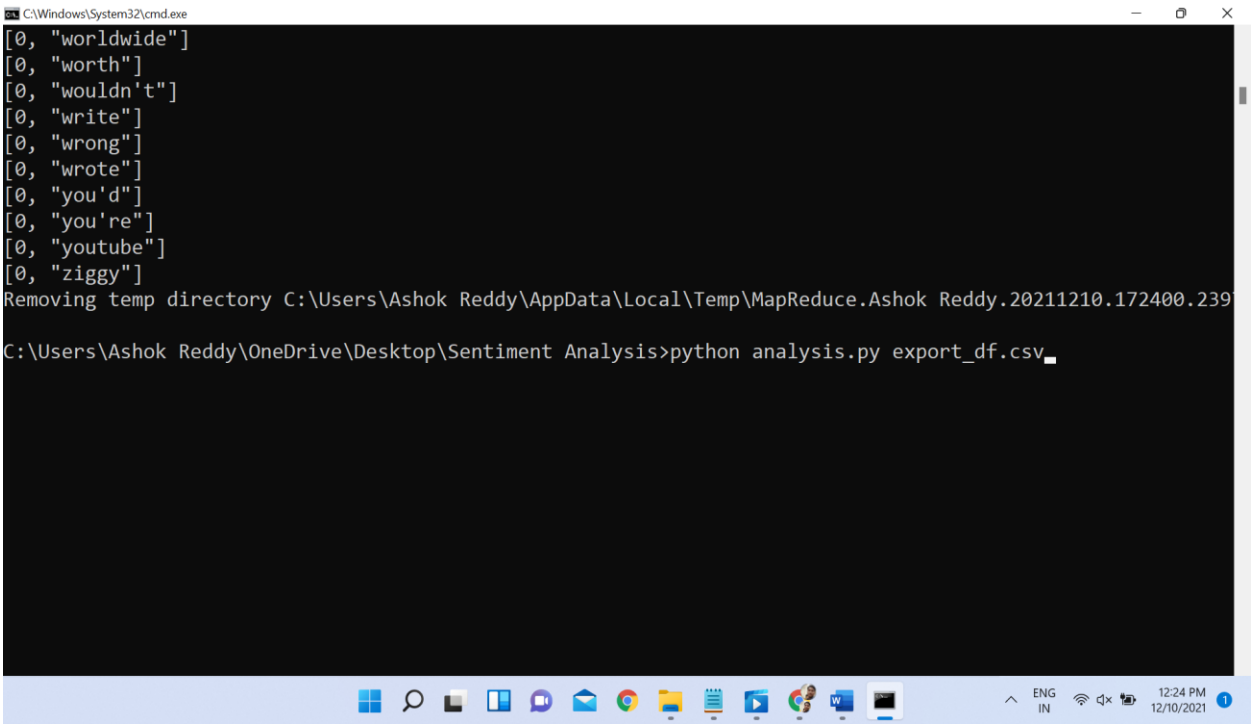


After the MapReduce file is executed an excel file is created with the name export_df in the Sentiment analysis folder in my case



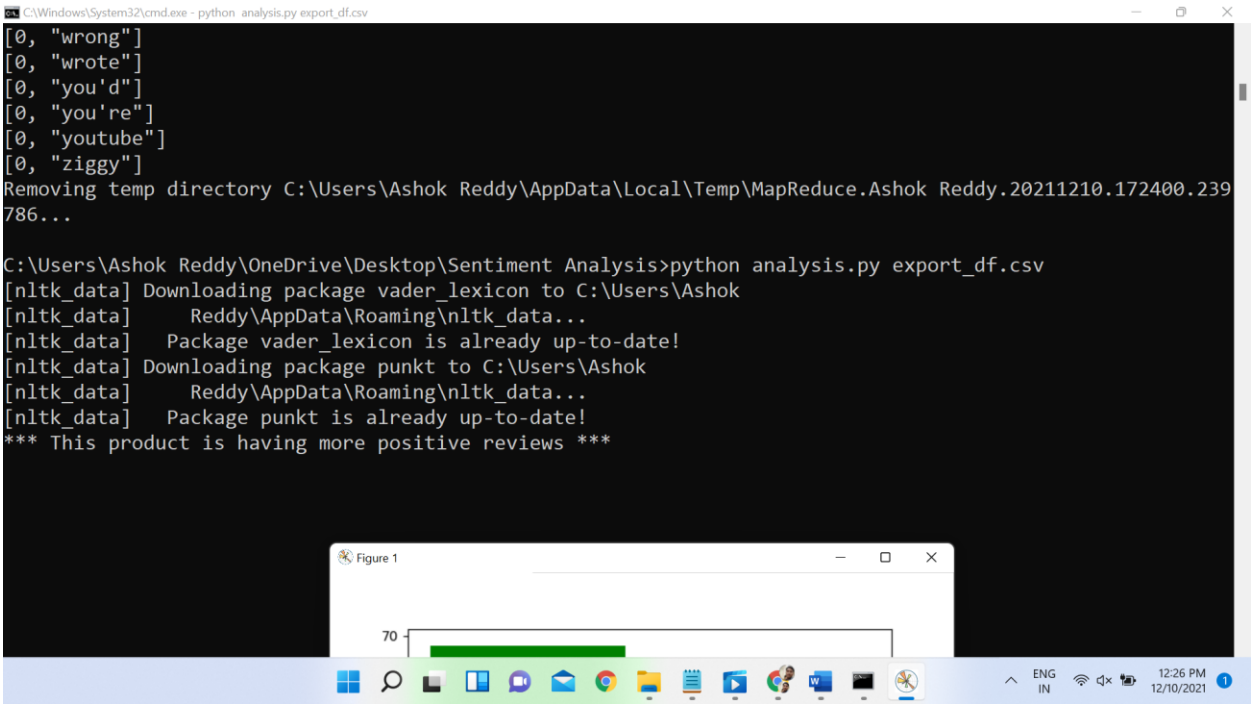
	A	B
234	get	8
235	getting	1
236	gift	1
237	give	1
238	given	1
239	glad	1
240	gmail	1
241	goes	1
242	going	1
243	good	4

3. Now apply sentiment analysis to the excel file. We get the result as positive or negative. Give the excel file as input to the analysis program
   In my case: Command- python analysis.py export_df.csv



Output: -

It gives “The product is having more positive reviews” if it has more positive reviews or “The product is having more negative reviews” if it has more negative reviews.



Based on the polarity scores we portrayed the differences the presence of positive and negative words through a bar graph as shown below.

Results are shown in a scattered graph which is showing the obtained polarity scores in the input text. -1 indicates complete negative word and +1 indicates complete positive word.