

In [20]:

```
import pandas as pd

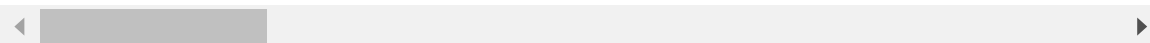
tweets = pd.read_csv(r'C:\Users\daksh\Desktop\SMA Tweets\tweets_compress.csv')

tweets.head()
```

Out[20]:

	Unnamed: 0	Datetime	Tweet Id	Text	Username	
0	0	2022-03-07 13:04:28+00:00	1.500820e+18	I've just booked a two night stay in Kiev, Ukr...	chazsnell	https://twitter.cor
1	1	2022-03-04 17:50:00+00:00	1.499804e+18	Given #Russia's considerable foreign exchange ...	orfonline	https://twitter.co
2	2	2022-03-04 18:53:43+00:00	1.499820e+18	Wow, one of my favorite actresses thank you mi...	AnaMelanyAmaya2	https://twitter.com//
3	3	2022-03-20 22:01:08+00:00	1.505666e+18	Ukraine's Zelenskiy presses Israel for missile...	sightmagazine	https://twitter.cor
4	4	2022-03-08 22:32:50+00:00	1.501325e+18	European oil receipts boosting Putin's war che...	MovieXen	https://twitter.com/

5 rows × 23 columns



In [21]:

```
from textblob import TextBlob
```

In [22]:

```
def sentiment_analysis(tweet):  
    def getSubjectivity(text):  
        return TextBlob(text).sentiment.subjectivity  
  
    #Create a function to get the polarity  
    def getPolarity(text):  
        return TextBlob(text).sentiment.polarity  
    #Create two new columns 'Subjectivity' & 'Polarity'  
    tweet['Subjectivity'] = tweet['Text Without Stop Words'].apply(getSubjectivity)  
    tweet ['Polarity'] = tweet['Text Without Stop Words'].apply(getPolarity)  
    def getAnalysis(score):  
        if score < 0:  
            return 'Supports War'  
        elif score == 0:  
            return 'Neutral'  
        else:  
            return 'Against War'  
    tweet ['Sentiment_Analysis'] = tweet ['Polarity'].apply(getAnalysis )  
    return tweet
```

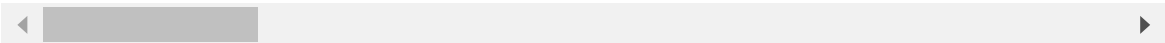
In [23]:

```
sentiment_analysis(tweets)
```

Out[23]:

Unnamed: 0		Datetime	Tweet Id	Text	Username	
0	0	2022-03-07 13:04:28+00:00	1.500820e+18	I've just booked a two night stay in Kiev, Ukr...	chazsnell	https://tv
1	1	2022-03-04 17:50:00+00:00	1.499804e+18	Given #Russia's considerable foreign exchange ...	orfonline	https://t
2	2	2022-03-04 18:53:43+00:00	1.499820e+18	Wow, one of my favorite actresses thank you mi...	AnaMelanyAmaya2	https://twitt
3	3	2022-03-20 22:01:08+00:00	1.505666e+18	Ukraine's Zelenskiy presses Israel for missile...	sightmagazine	https://tv
4	4	2022-03-08 22:32:50+00:00	1.501325e+18	European oil receipts boosting Putin's war che...	MovieXen	https://twit
...
1854	1854	2022-03-04 06:34:56+00:00	1.499634e+18	A recap #PutinOligarchs #Oligarchy & the #...	K08345975	https://twit
1855	1855	2022-03-16 04:19:43+00:00	1.503949e+18	Anyone wants a good #daybyday #ukrainewar news...	driftlesstony	https:.
1856	1856	2022-03-02 19:37:52+00:00	1.499107e+18	Heerak Christian Kim, @GOP candidate for #USA ...	Heerak4Congress	https://twi
1857	1857	2022-03-09 18:30:00+00:00	1.501626e+18	RETREADCAST: Catch up on the latest #Retreadca...	RetreadBusiness	https://tv
1858	1858	2022-03-08 07:48:54+00:00	1.501103e+18	Just 300 Ukrainian refugees granted visas to c...	MovieXen	https://twil

1859 rows × 26 columns



In [24]:

```
tweets['Sentiment_Analysis']
```

Out[24]:

```
0      Against War
1      Supports War
2      Against War
3      Neutral
4      Neutral
...
1854     Neutral
1855     Against War
1856     Neutral
1857     Against War
1858     Neutral
Name: Sentiment_Analysis, Length: 1859, dtype: object
```

In [26]:

```
tweets['Sentiment_Analysis'].value_counts()
```

Out[26]:

```
Neutral      927
Against War  559
Supports War  373
Name: Sentiment_Analysis, dtype: int64
```

In [27]:

```
tweets.to_csv(r'C:\Users\daksh\Desktop\SMA Tweets\tweets_compress_sentiment.csv')
```