In [90]: data = pd.read_excel(r"./C_DMK.xlsx",engine='openpyxl')

Out[91]:

stemm	Tweets	location	user	Unnamed: 0	
['let', 'slowli', 'walk', 'two', 'ma	let slowly walk two made can reread like insan	NaN	BLawver5	0	0
['game', 'give', 'advantag', 'yea',	game give advantage yea way control character	NaN	jcjackson82696	1	1
['day', 'strawberri', 'lemonad', 'cr	day strawberry lemonade crack dont yea	NaN	SpadePeoples122	2	2
['one', 'far', 'better', 'thin', 'w	one far better thin wearing long even really t	iAM	ShmurdaBenny	3	3
	NaN	NaN	Everybo96116105	4	4
['actual', 'm	actually might time	NaN	flexyshotjr	5	5
	one sec	NaN	Everybo96116105	6	6
	let talk	NaN	urs_surya09	7	7
	vote	Erfurt, Deutschland	celine_mnk	8	8
['exact', 'cant', 'win', 'argumer	exactly cant win argument bitch go back gold keep	NaN	Sygic5	9	9

```
In [92]:
          data.info()
             <class 'pandas.core.frame.DataFrame'>
             RangeIndex: 496 entries, 0 to 495
             Data columns (total 5 columns):
                  Column
                                 Non-Null Count Dtype
                  Unnamed: 0
                                 496 non-null
                                                 int64
              1 user
                                 496 non-null
                                                 object
                                 303 non-null
                                                 object
              2 location
                                 464 non-null
                                                 object
              3 Tweets
                 stemmed tweets 496 non-null
                                                 object
             dtypes: int64(1), object(4)
             memory usage: 19.5+ KB
In [93]:
          M data['Tweets'] = data['Tweets'].astype('str')
             data['stemmed tweets'] = data['stemmed tweets'].astype('str')
In [94]:

    def getSubjectivity(text):

                return TextBlob(text).sentiment.subjectivity
             def getPolarity(text):
                return TextBlob(text).sentiment.polarity
In [95]: | data['Subjectivity_st'] = data['stemmed_tweets'].apply(getSubjectivity)
             data['Polarity_st'] = data['stemmed_tweets'].apply(getPolarity)
          data['Subjectivity'] = data['Tweets'].apply(getSubjectivity)
             data['Polarity'] = data['Tweets'].apply(getPolarity)
```

Out[97]:

	Unnamed: 0	user	location	Tweets	stemmed_tweets	Subjectivity_st	Polar
0	0	BLawver5	NaN	let slowly walk two made can reread like insan	['let', 'slowli', 'walk', 'two', 'made', 'can'	0.600000	0.7
1	1	jcjackson82696	NaN	game give advantage yea way control character	['game', 'give', 'advantag', 'yea', 'way', 'co	0.644444	0.0
2	2	SpadePeoples122	NaN	day strawberry lemonade crack dont yea	['day', 'strawberri', 'lemonad', 'crack', 'don	0.000000	0.0
3	3	ShmurdaBenny	iAM	one far better thin wearing long even really t	['one', 'far', 'better', 'thin', 'wear', 'long	0.498810	-0.0
4	4	Everybo96116105	NaN	nan	0	0.000000	0.0



In [100]: ▶ df

Out[100]:

Un	named: 0	user	location	Tweets	stemmed_tweets	Subjectivity_st	Polarity_st
0	0	BLawver5	NaN	let slowly walk two made can reread like insan	['let', 'slowli', 'walk', 'two', 'made', 'can'	0.600000	0.700000
1	1	jcjackson82696	NaN	game give advantage yea way control character	['game', 'give', 'advantag', 'yea', 'way', 'co	0.644444	0.050000
2	2	SpadePeoples122	NaN	day strawberry lemonade crack dont yea	['day', 'strawberri', 'lemonad', 'crack', 'don	0.000000	0.000000
3	3	ShmurdaBenny	iAM	one far better thin wearing long even really t	['one', 'far', 'better', 'thin', 'wear', 'long	0.498810	-0.016667
4	4	Everybo96116105	NaN	nan	0	0.000000	0.000000
491	491	DylzR6	Hell	probably waffle detect can	['probabl', 'waffl', 'detect', 'can']	0.000000	0.000000
492	492	UmarZunnurain	NaN	sammy thank brother already blinded way	['sammi', 'thank', 'brother', 'alreadi', 'blin	0.666667	-0.500000
493	493	mnk_009	ఇక్కడె) 17.441071,78.437871	b	['d']	0.000000	0.000000
494	494	TheOfficalTempz	The skreets of Romford	like	['like']	0.000000	0.000000
495	495	Exglez	NaN	well shouldnt even champ	['well', 'shouldnt', 'even', 'champ']	0.000000	0.000000
196 rows	s × 10 cc	olumns					

In [101]: ptweets = df[df.Analysis == 'Positive']
 ptweets = ptweets['Tweets']
 ptweets

round((ptweets.shape[0] / df.shape[0]) * 100 , 1)

Out[101]: 34.7

```
In [102]: | allwords = ' '.join([twts for twts in ptweets])
              wordCloud = WordCloud(background color = "white", width=500, height=300, random state=21, max font size
              plt.imshow(wordCloud, interpolation="bilinear")
              plt.axis('off')
             plt.show()
In [103]:
           ntweets = df[df.Analysis == 'Negative']
              ntweets = ntweets['stemmed_tweets']
             ntweets
             round( (ntweets.shape[0] / df.shape[0]) * 100, 1)
   Out[103]: 19.0
           ntweets = df[df.Analysis == 'Negative']
In [104]:
              ntweets = ntweets['Tweets']
              ntweets
             round( (ntweets.shape[0] / df.shape[0]) * 100, 1)
   Out[104]: 19.0
```

```
In [105]: M allWords = ' '.join([twts for twts in ntweets])
wordCloud = WordCloud(background_color = "white",max_words = 200,width=500, height=300, random_state=2

plt.imshow(wordCloud, interpolation="bilinear")
plt.axis('off')
plt.show()

input bettergoing life aim assistive
really now.
```



Out[106]: 46.4

```
In [107]: Mallwords = ' '.join([twts for twts in neutweets])
wordCloud = WordCloud(background_color = "white",width=500, height=300, random_state=21, max_font_size

plt.imshow(wordCloud, interpolation="bilinear")
plt.axis('off')
plt.show()

**Sayingneed**
**Think of the property o
```

In []:

4