```
[1] import numpy as np
    import pandas as pd

    import os
    for dirname, _, filenames in os.wal
        for filename in filenames:
            print(os.path.join(dirname,
```

1s

```
df = pd.read_csv("/content/sentimer
df.head(5)
```

0s

	Unnamed: 0.1	Unnamed: 0	Text
0	0	0	Enjoying a beautiful day at the park! ...
1	1	1	Traffic was terrible this morning. ...
2	2	2	Just finished an amazing workout!

```
print('Columns of dataset: ', df.cc
print('Dimension of dataset: ', df.
print('Infomation of dataset: ', df
```

```
Columns of dataset:  Index(['Unna
       'Platform', 'Hashtags', 'I
       'Day', 'Hour'],
      dtype='object')

Dimension of dataset:  (732, 15)

<class 'pandas.core.frame.DataFra
RangeIndex: 732 entries, 0 to 73
Data columns (total 15 columns):
 #   Column         Non-Null Count
---  ------         --------------
 0   Unnamed: 0.1   732 non-null
 1   Unnamed: 0     732 non-null
 2   Text           732 non-null
 3   Sentiment      732 non-null
 4   Timestamp      732 non-null
 5   User           732 non-null
 6   Platform       732 non-null
 7   Hashtags       732 non-null
 8   Retweets       732 non-null
 9   Likes          732 non-null
 10  Country        732 non-null
 11  Year           732 non-null
 12  Month          732 non-null
 13  Day            732 non-null
 14  Hour           732 non-null
dtypes: float64(2), int64(6), obj
```

0s

```
df.isnull().sum()
```

	0
Unnamed: 0.1	0
Unnamed: 0	0
Text	0
Sentiment	0
Timestamp	0
User	0
Platform	0
Hashtags	0
Retweets	0
Likes	0
Country	0
Year	0
Month	0
Day	0
Hour	0

dtype: int64

0s
```
df.duplicated().sum()
```

```
0
```

0s
```
df1=df.drop(['Unnamed: 0.1', 'Unnan
```

0s
```
df1.describe()
```

	Retweets	Likes	
count	732.000000	732.000000	732.(
mean	21.508197	42.901639	2020.4
std	7.061286	14.089848	2.8
min	5.000000	10.000000	2010.(
25%	17.750000	34.750000	2019.(
50%	22.000000	43.000000	2021.(
75%	25.000000	50.000000	2023.(
max	40.000000	80.000000	2023.(

0s
```
df1.describe(include=['object'])
```

0s

```
df1.describe(include=['object'])
```

	Text	Sentiment	T
count	732	732	
unique	707	279	
top	A compassionate rain, tears of empathy fallin...	Positive	
freq	3	44	

0s

```
df1['Text']= df1['Text'].str.strip(
df1['Sentiment']= df1['Sentiment'].
df1['User']= df1['User'].str.strip(
df1['Platform']= df1['Platform'].st
df1['Hashtags']= df1['Hashtags'].st
df1['Country']= df1['Country'].str.
```

0s

```
print("Print unique values in 'Plat
print("Value counts in 'Platform' c
```

```
Print unique values in 'Platform

Value counts in 'Platform' colum
 Platform
```

0s

```
df1.sample(3)
```

	Text	Sentiment	Timesta
463	Betrayal, a venomous serpent slithering throug...	Betrayal	2021-03 17:45
601	Started a blog about random thoughts and musin...	Curiosity	2023-06 17:30
584	Decided to study for exams but ended up making...	Surprise	2023-05 13:15

0s

```
import datetime as dt
df1['time'] = pd.to_datetime(df1.Ti
df1['Date'] = df1['time'].dt.date
df1['Time'] = df1['time'].dt.time
#df1['new_Day']=df1['time'].dt.day
df1['Weekday']=df1['time'].dt.week
```

0s

```
import datetime as dt
df1['time'] = pd.to_datetime(df1.Ti
df1['Date'] = df1['time'].dt.date
df1['Time'] = df1['time'].dt.time
#df1['new_Day']=df1['time'].dt.day
df1['Weekday']=df1['time'].dt.weekd
#df1.drop(['Timestamp', 'time'], ax
df1.head(2)
```

	Text	Sentiment	Timestamp
0	Enjoying a beautiful day at the park!	Positive	2023-01-15 12:30:00
1	Traffic was terrible this morning.	Negative	2023-01-15 08:45:00

Next steps: code df1 recommended

0s

```
df2=df1.drop(['Timestamp', 'time'],
df2.head(2)
```

	Text	Sentiment	User

RAM
Disk

0s

```
df2=df1.drop(['Timestamp', 'time'],
df2.head(2)
```

	Text	Sentiment	User
0	Enjoying a beautiful day at the park!	Positive	User123
1	Traffic was terrible this morning.	Negative	CommuterX

Next steps: code df2 recommended

1s

```
df2['Monthname']=df2['Month'].repla
df2['Weekdayname']=df2['Weekday'].r
df2.head(2)
```

	Text	Sentiment	User
0	Enjoying a beautiful day at	Positive	User123

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	Text	Sentiment	User
0	Enjoying a beautiful day at the park!	Positive	User123
1	Traffic was terrible this morning.	Negative	CommuterX

Next steps: code df2 recommende

0s

```
2.drop('Weekday', axis=1).sample(2)
```

	Text	Sentiment	
489	In the carnival of emotions, the rollercoaster...	Thrill	Emot
239	Melancholy as a companion, painting the	Melancholy	Wis

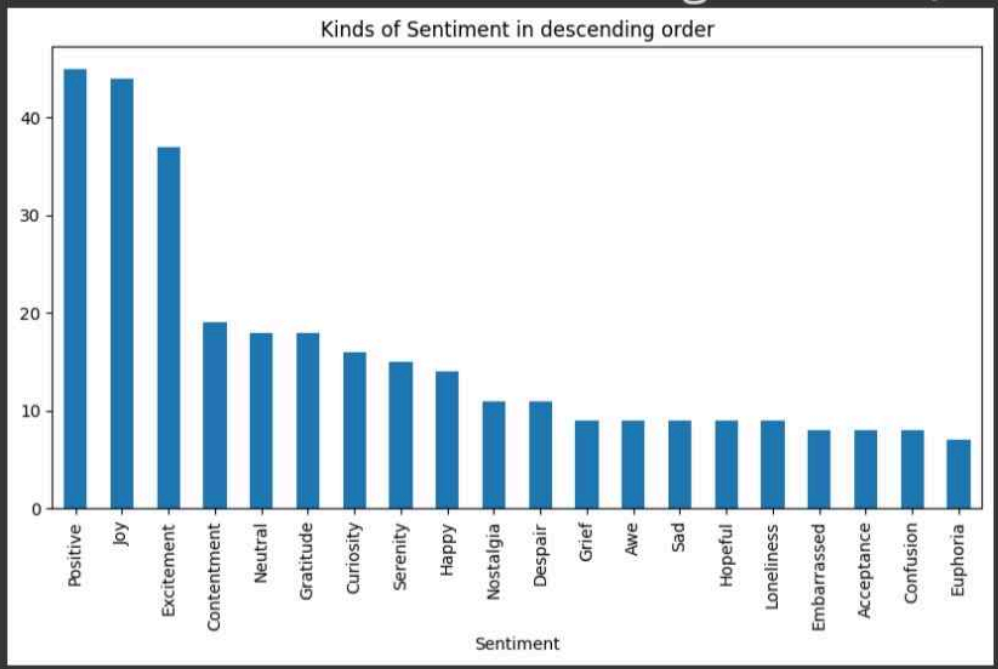
```
print('Name of value in the Monthna
print('Name of value in the Weekday
```

```
Name of value in the Monthname c
Name of value in the Weekdayname
```

```
import matplotlib.pyplot as plt
import seaborn as sns

plt.figure(figsize=(10, 5))
df2['Sentiment'].value_counts().nla
plt.title("Kinds of Sentiment in de
```

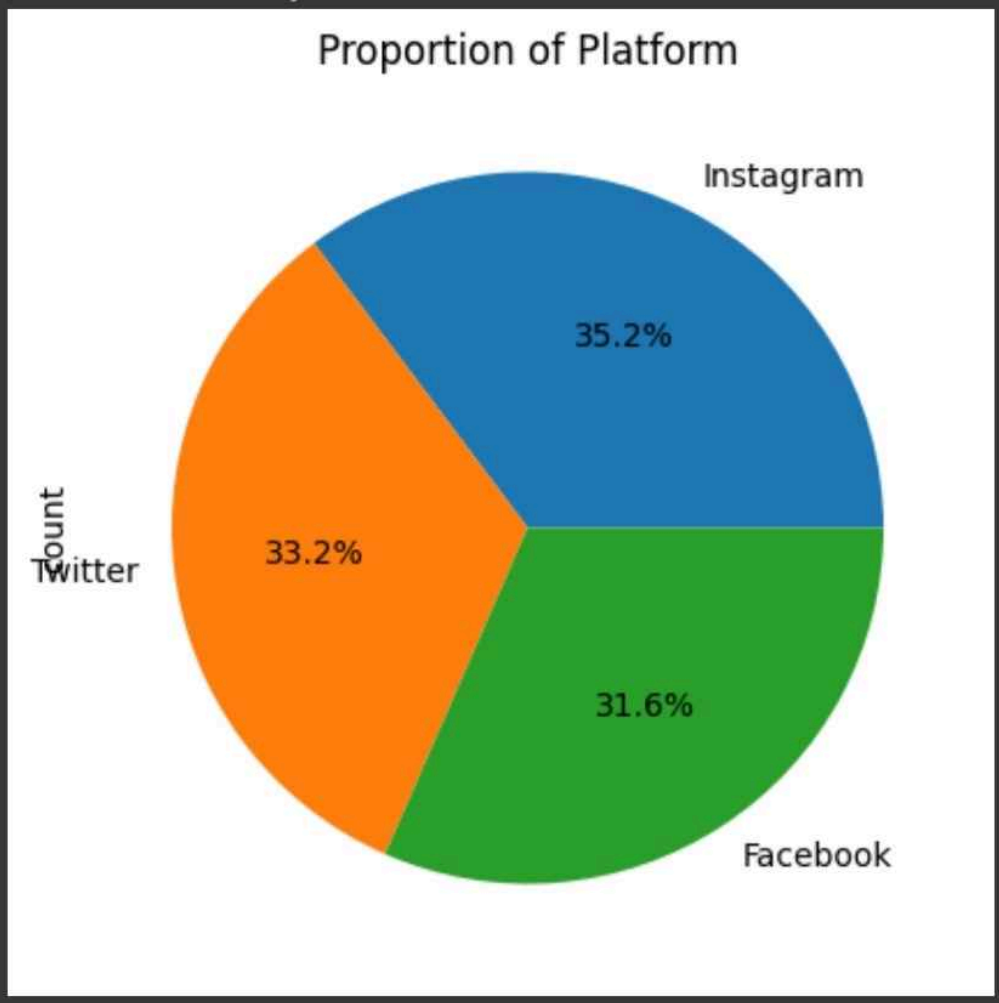
```
Text(0.5, 1.0, 'Kinds of
Sentiment in descending order')
```




```
plt.figure(figsize=(10, 5))
df2['Platform'].value_counts().plot
plt.title("Proportion of Platform"
```

```
plt.figure(figsize=(10, 5))
df2['Platform'].value_counts().plot
plt.title("Proportion of Platform")
```

```
Text(0.5, 1.0, 'Proportion of Platform')
```



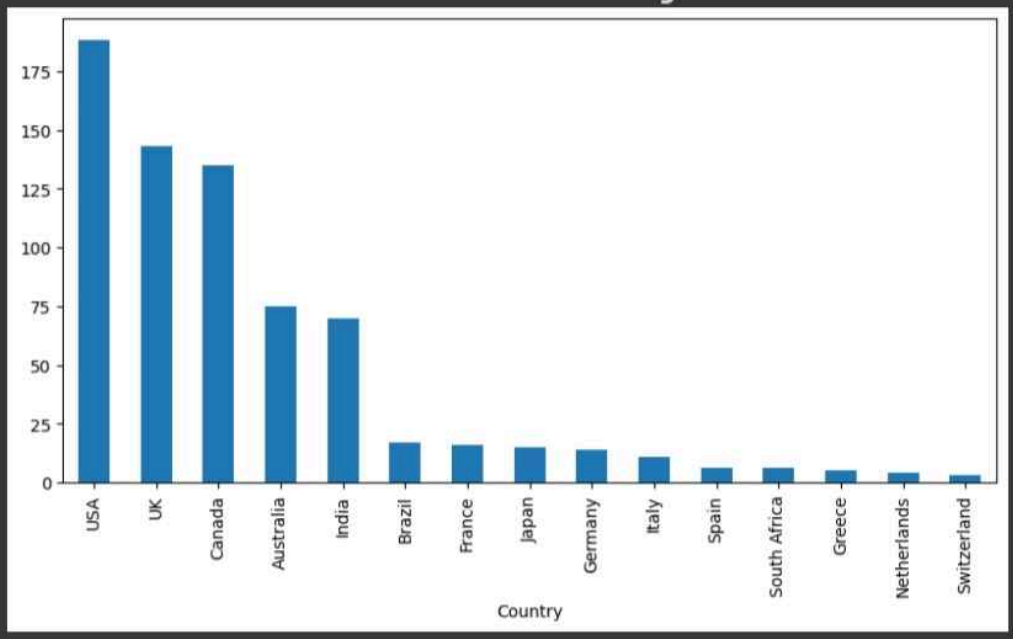

```
plt.figure(figsize=(10, 5))
df2['Country'].value_counts().nlarg
```

```
<Axes: xlabel='Country'>
```

1s

```
plt.figure(figsize=(10, 5))
df2['Country'].value_counts().nlarg
```

```
<Axes: xlabel='Country'>
```



0s

```
lue: {column}:{df2[column].min()}")
```

```
Maxiumn value: Year:2023 | Minim
Maxiumn value: Likes:80.0 | Mini
Maxiumn value: Retweets:40.0 | M
```

1s

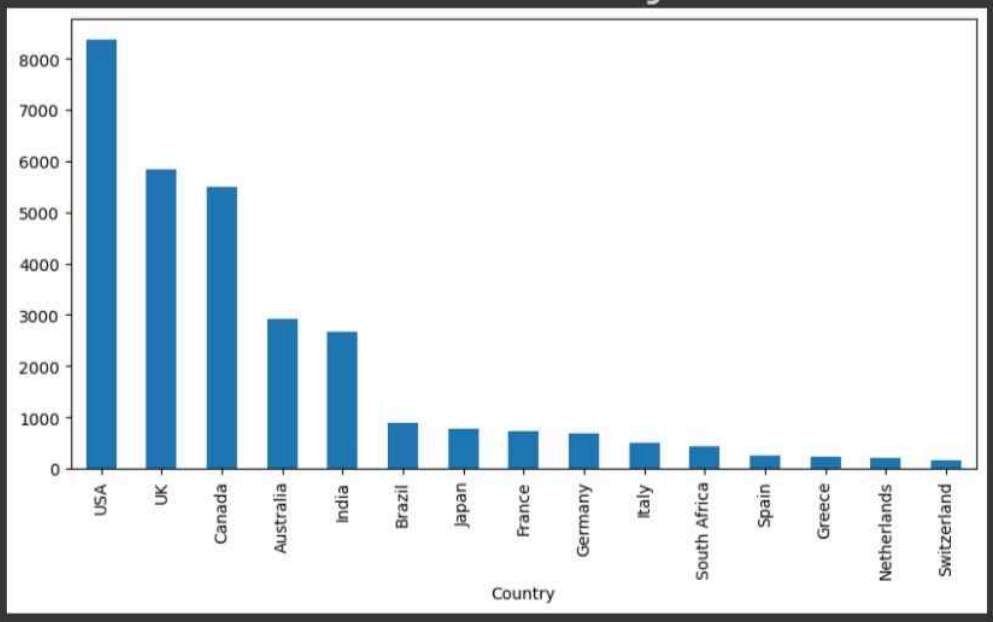
```
plt.figure(figsize=(10, 5))
df2.groupby('Country')['Likes'].sum
```

```
<Axes: xlabel='Country'>
```

1s

```
plt.figure(figsize=(10, 5))
df2.groupby('Country')['Likes'].sum
```

```
<Axes: xlabel='Country'>
```



2s

```
plt.figure(figsize=(10, 5))
df3=df2.groupby('Hashtags')['Retwee
df3.plot(kind='bar')
plt.xticks(rotation=80)
```

```
(array([0, 1, 2, 3, 4, 5, 6, 7,
8, 9]),
 [Text(0, 0, '#Wonder
#StargazingAdventure'),
  Text(1, 0, '#Playful
#CarnivalEscapade'),
  Text(2, 0, '#Harmony
#MusicalUnity'),
  Text(3, 0, '#Proud
#ScalingPeaks'),
  Text(4, 0, '#Compassionate
#TearsOfEmpathy'),
  Text(5, 0, '#Coziness
```

RAM
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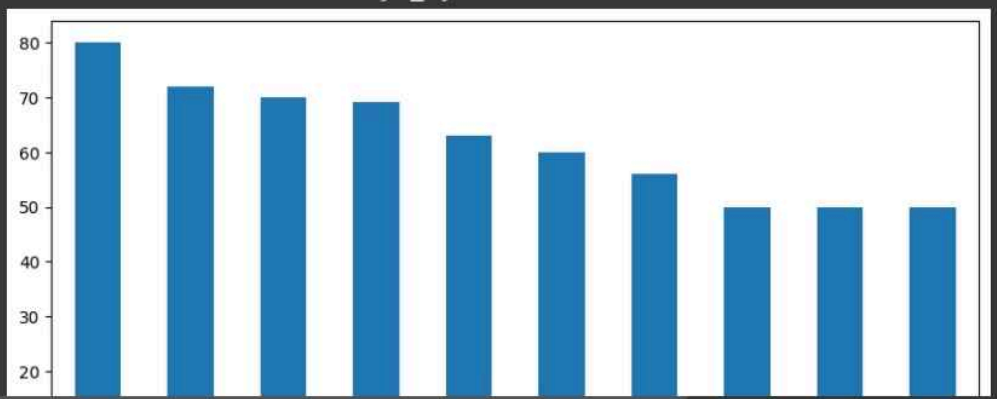
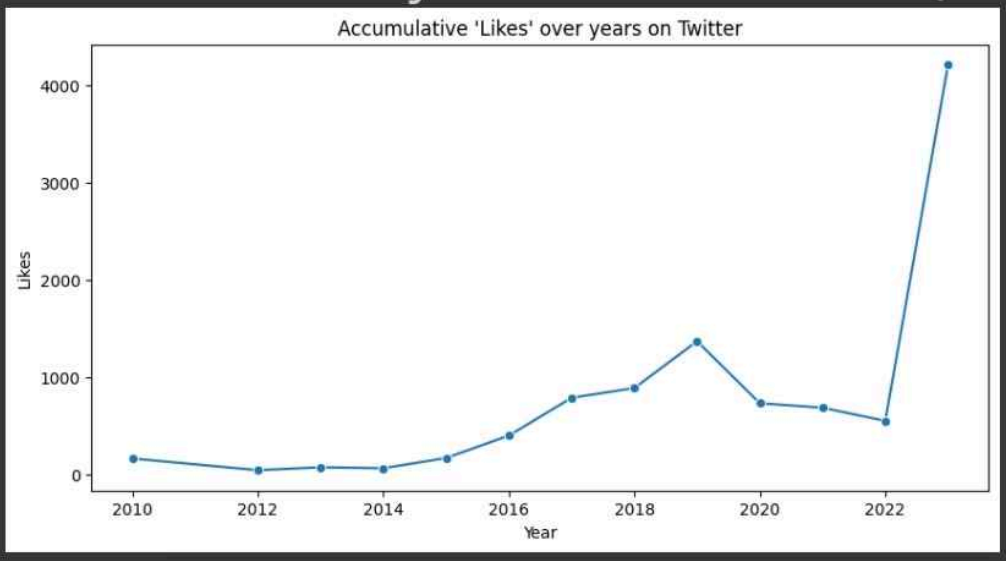
```
plt.figure(figsize=(10, 5))
df3=df2.groupby('Hashtags')['Retwee
df3.plot(kind='bar')
plt.xticks(rotation=80)
```

```
(array([0, 1, 2, 3, 4, 5, 6, 7,
8, 9]),
 [Text(0, 0, '#Wonder
#StargazingAdventure'),
  Text(1, 0, '#Playful
#CarnivalEscapade'),
  Text(2, 0, '#Harmony
#MusicalUnity'),
  Text(3, 0, '#Proud
#ScalingPeaks'),
  Text(4, 0, '#Compassionate
#TearsOfEmpathy'),
  Text(5, 0, '#Coziness
#WarmWinterEvening'),
  Text(6, 0, '#Inspiration
#ForestWhispers'),
  Text(7, 0, '#Playful
#JugglingResponsibilities'),
  Text(8, 0, '#Radiance
#SpringBlooms'),
  Text(9, 0, '#TimelessTunes
#SeniorJazz')])
```



```
Twitter=df2[df2['Platform']=='Twit
df5=Twitter.groupby('Year')['Likes'
plt.figure(figsize=(10, 5))
sns.lineplot(data=df5, x='Year', y=
plt.title("Accumulative 'Likes' ove
```

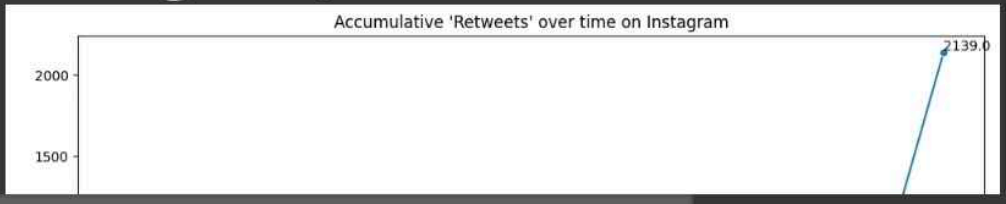
```
Text(0.5, 1.0, "Accumulative 'Likes' over years on Twitter")
```




```
Instagram=df2[df2['Platform']=='Ins
df_ins=Instagram.groupby('Year')['F

plt.figure(figsize=(12, 5))
sns.lineplot(data=df_ins, x='Year',
for index, value in df_ins.iterrows
    plt.text(value['Year'], value['
plt.title("Accumulative 'Retweets'
```

```
Text(0.5, 1.0, "Accumulative 'Retweets' over time on Instagram")
```



1s

```
Instagram=df2[df2['Platform']=='Ins
df_ins=Instagram.groupby('Year')['F

plt.figure(figsize=(12, 5))
sns.lineplot(data=df_ins, x='Year',
for index, value in df_ins.iterrows
    plt.text(value['Year'], value['
plt.title("Accumulative 'Retweets'
```

```
Text(0.5, 1.0, "Accumulative
'Retweets' over time on
Instagram")
```