Visualize the data using Python libraries matplotlib, seaborn by plotting the graphs for Facebook metrics data sets. (Draw Boxplot, Histogram, Single Line Graph, Multiple Line Graph)

```
In [1]: import pandas as pd
   import numpy as np
   import matplotlib.pyplot as plt
   import seaborn as sns
```

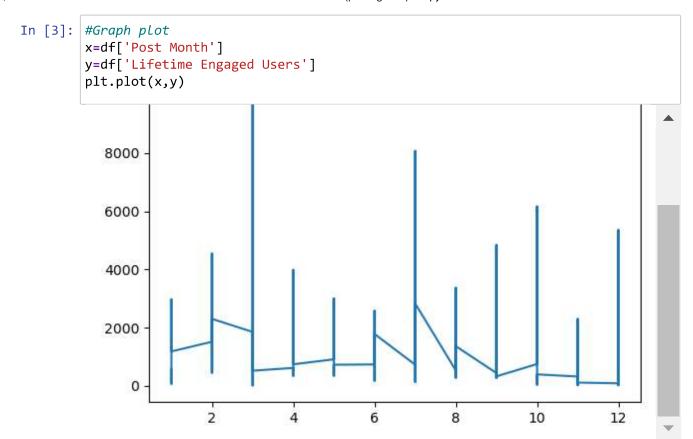
In [2]: df = pd.read_csv(r"C:\Users\yasha\Desktop\Ashish\sem 6\DSBDA\DSBDA Lab Datase
df

Out[2]:

	Page total likes	Туре	Category	Post Month	Post Weekday	Post Hour	Paid	Lifetime Post Total Reach	Lifetime Post Total Impressions	Lifetime Engaged Users	(
	139441	Photo	2	12	4	3	0.0	2752	5091	178	_
1	139441	Status	2	12	3	10	0.0	10460	19057	1457	
2	139441	Photo	3	12	3	3	0.0	2413	4373	177	
3	139441	Photo	2	12	2	10	1.0	50128	87991	2211	
4	139441	Photo	2	12	2	3	0.0	7244	13594	671	
495	85093	Photo	3	1	7	2	0.0	4684	7536	733	
496	81370	Photo	2	1	5	8	0.0	3480	6229	537	
497	81370	Photo	1	1	5	2	0.0	3778	7216	625	
498	81370	Photo	3	1	4	11	0.0	4156	7564	626	
499	81370	Photo	2	1	4	4	NaN	4188	7292	564	

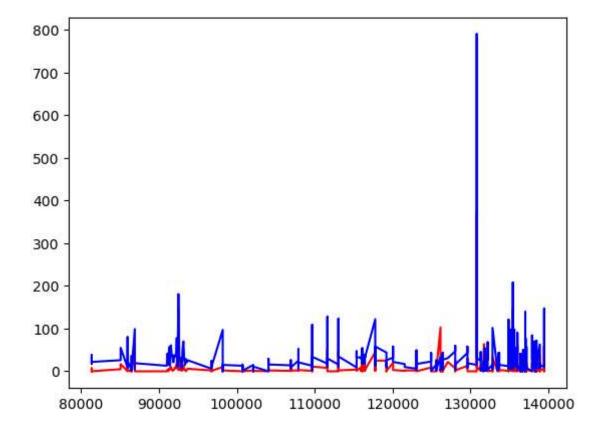
500 rows × 19 columns



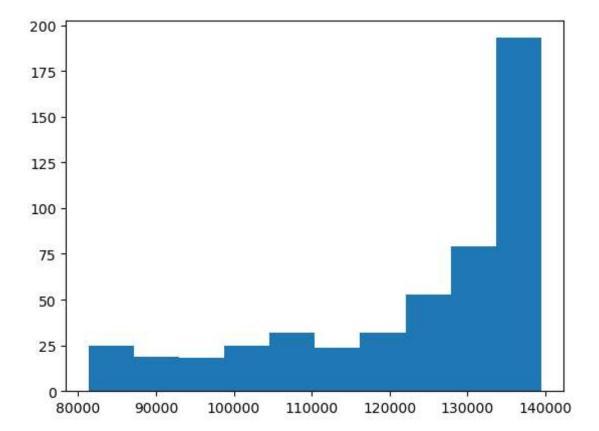


```
In [6]: #multiline graph
    x=df['Page total likes']
    y=df['comment']
    z=df['share']
    plt.plot(x,y,color="red")
    plt.plot(x,z,color='blue')
```

Out[6]: [<matplotlib.lines.Line2D at 0x246d2ab2950>]

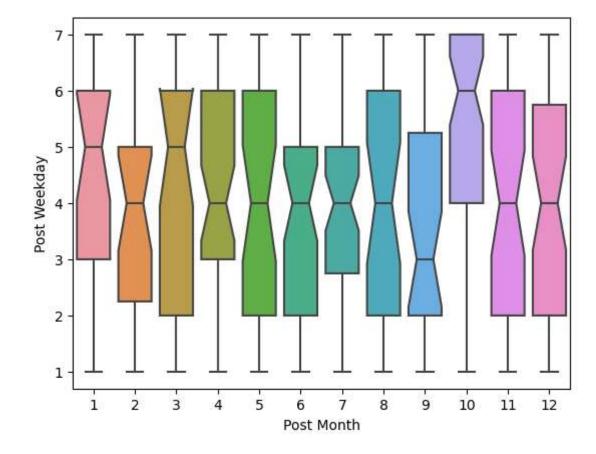


```
In [7]: #histogram
x=np.random.normal(df['Page total likes'])
plt.hist(x)
```



In [11]: sns.boxplot(x=df['Post Month'], y=df['Post Weekday'], notch=True)

Out[11]: <Axes: xlabel='Post Month', ylabel='Post Weekday'>



In [12]: sns.heatmap(df.corr())

C:\Users\yasha\AppData\Local\Temp\ipykernel_21508\58359773.py:1: FutureWarni
ng: The default value of numeric_only in DataFrame.corr is deprecated. In a
future version, it will default to False. Select only valid columns or speci
fy the value of numeric_only to silence this warning.
 sns.heatmap(df.corr())

Out[12]: <Axes: >

