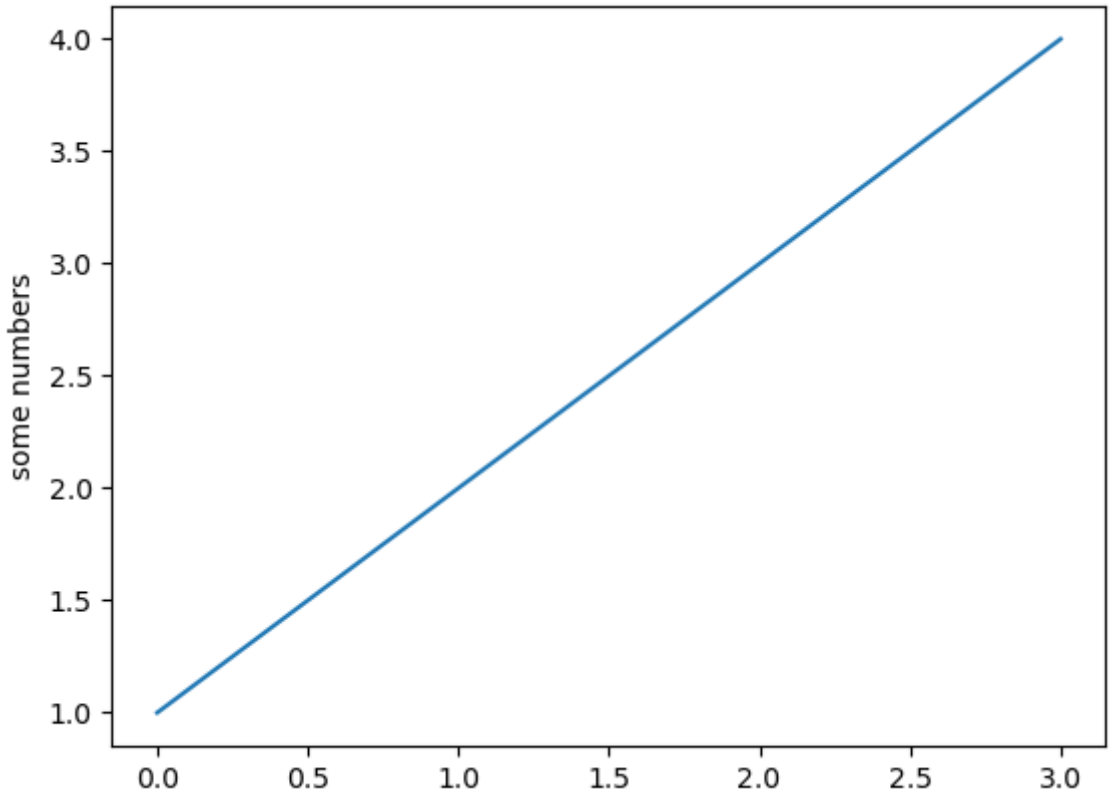
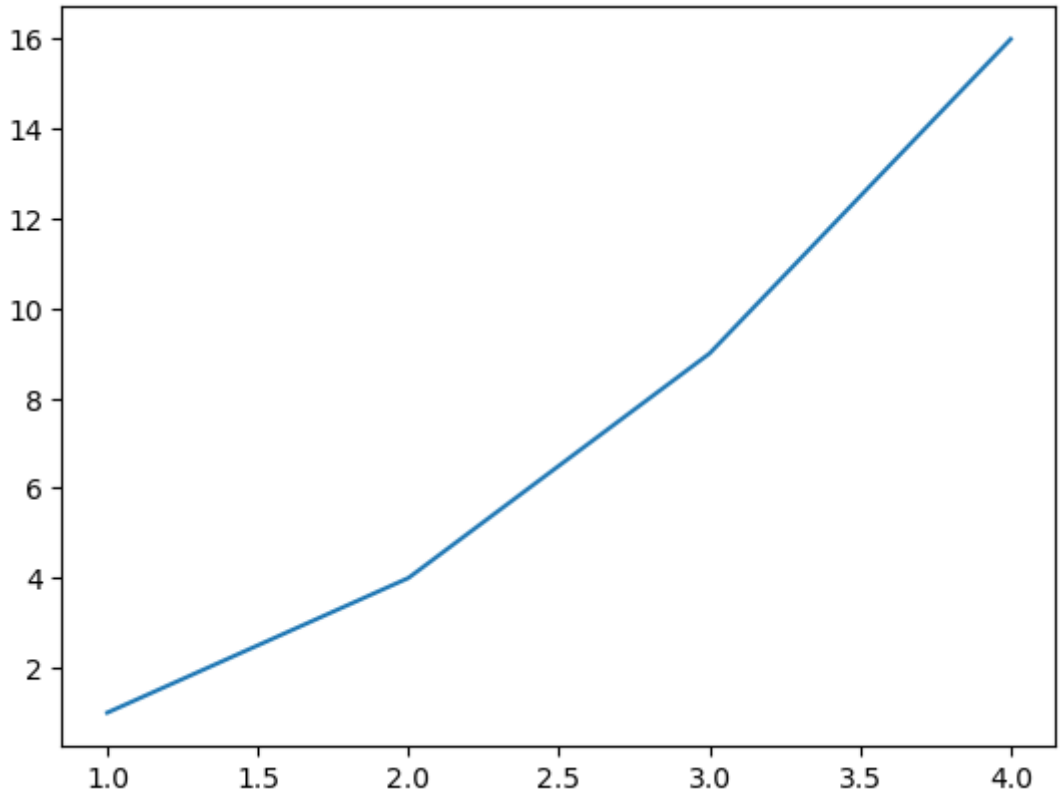
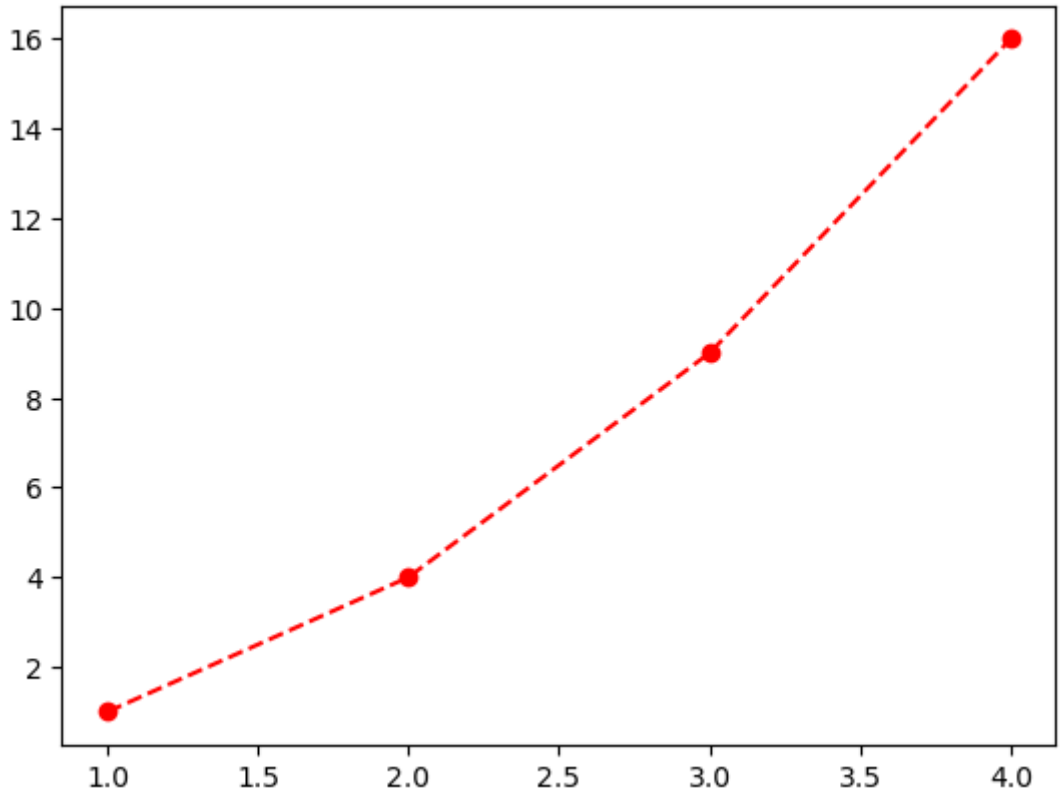
In [1]:

```
# plot1
import matplotlib.pyplot as plt
plt.plot([1, 2, 3, 4])
plt.ylabel('some numbers')
plt.show()
plt.plot([1, 2, 3, 4], [1, 4, 9, 16])
plt.show()
plt.plot([1, 2, 3, 4], [1, 4, 9, 16], 'ro')
plt.plot([1, 2, 3, 4], [1, 4, 9, 16], 'r--')
plt.show()
```

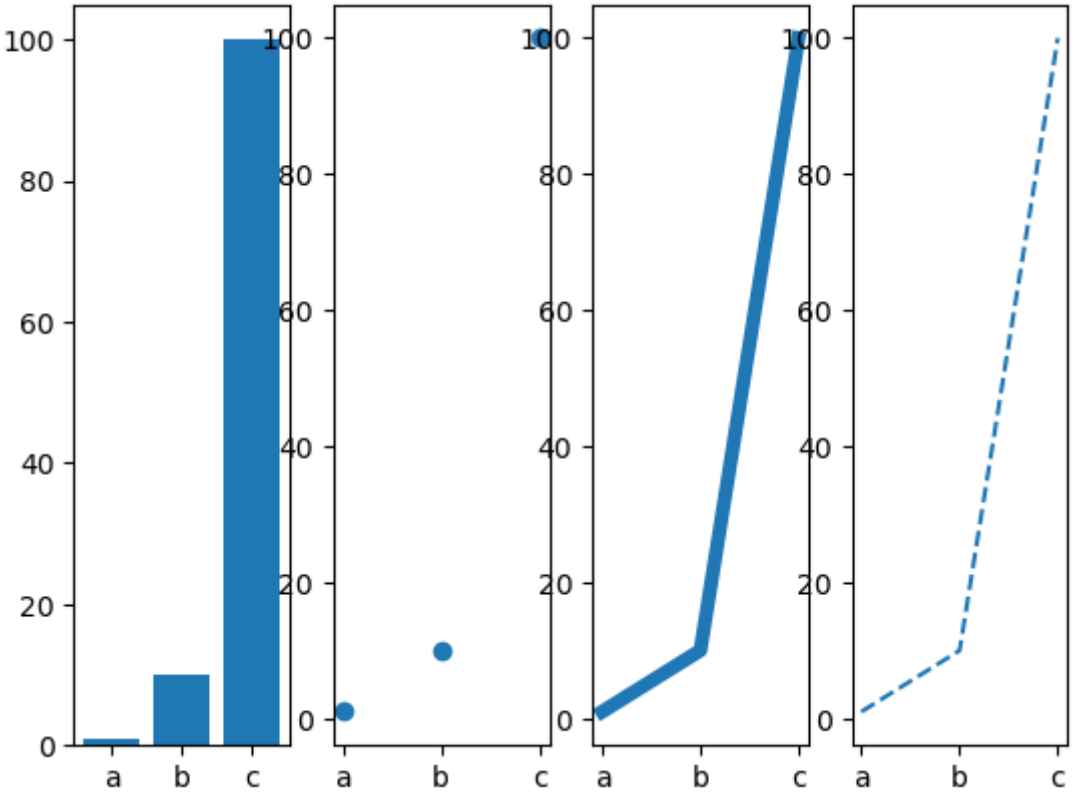



16
14
12
10
8
6
4
2
1.0
1.5
2.0
2.5
3.0
3.5
4.0


16
14
12
10
8
6
4
2
1.0
1.5
2.0
2.5
3.0
3.5
4.0

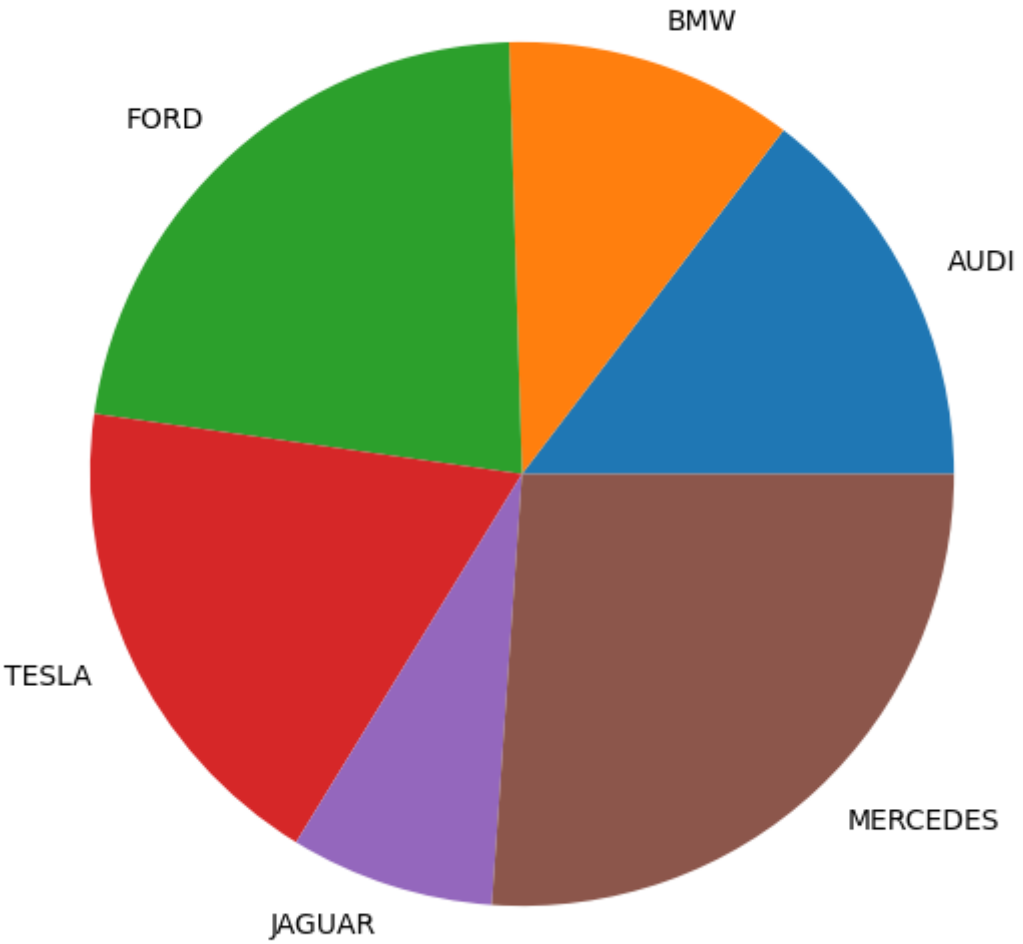
In [2]:

```
## plot2
import matplotlib.pyplot as plt
names = ['a', 'b', 'c']
values = [1, 10, 100]
plt.subplot(141)
plt.bar(names, values)
plt.subplot(142)
plt.scatter(names, values)
plt.subplot(143)
plt.plot(names, values, linewidth=5.0)
plt.subplot(144)
plt.plot(names, values, '--')
plt.show()
```



In [3]:

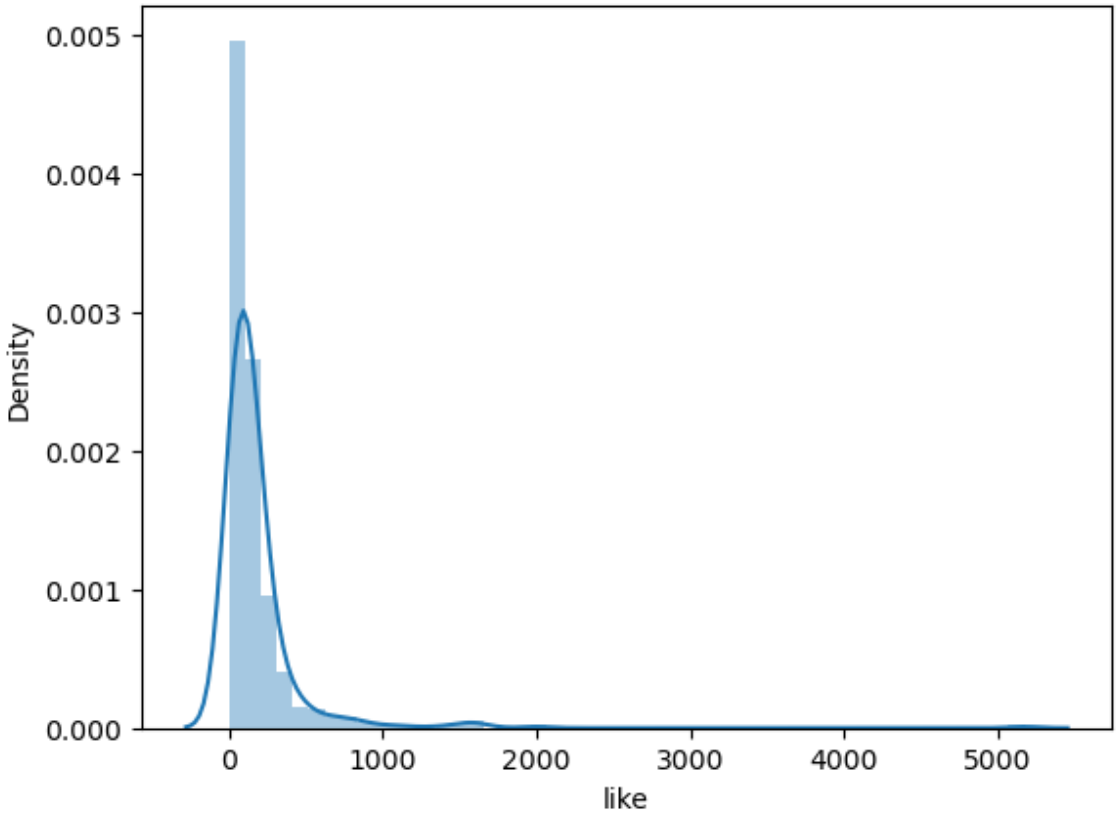
```
#PI Plot
import matplotlib.pyplot as plt
import numpy as np
# Creating dataset
cars = ['AUDI', 'BMW', 'FORD', 'TESLA', 'JAGUAR', 'MERCEDES']
data = [23, 17, 35, 29, 12, 41]
# Creating plot
fig = plt.figure(figsize =(10, 7))
plt.pie(data, labels = cars)
plt.show()
```

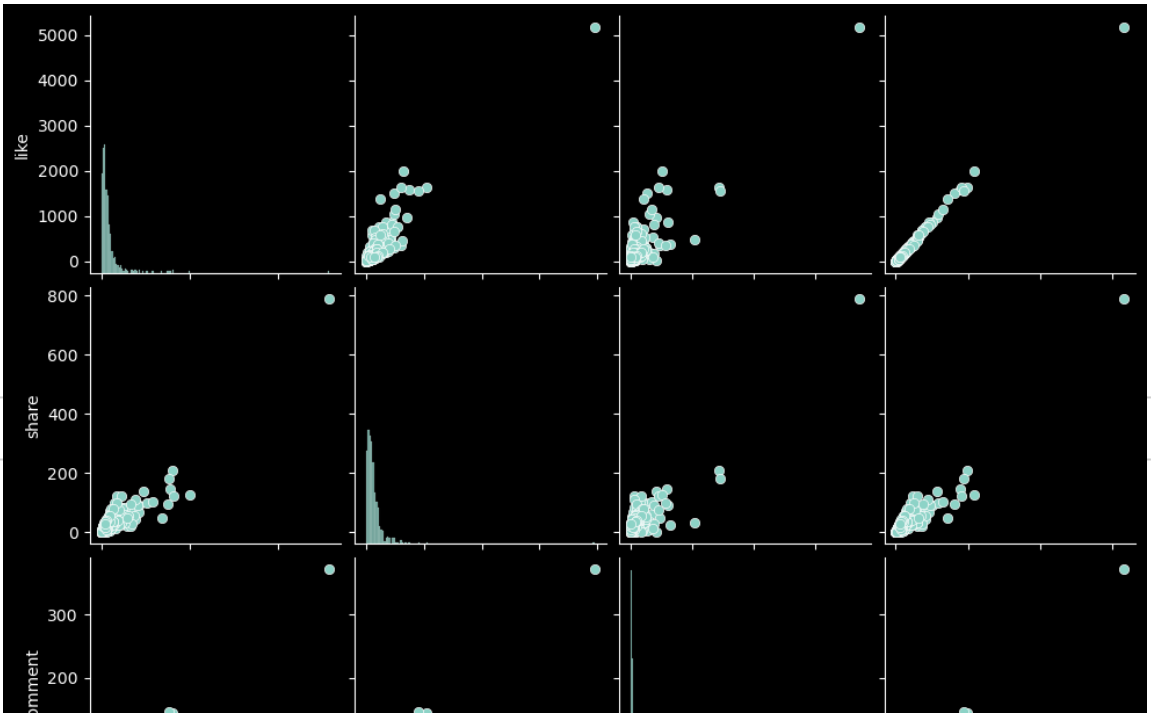


In [5]:

```
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
pstore = pd.read_csv("C:/Users/DELL/Downloads/Data sets-20230523T162217Z-001/Data sets/d
pstore.head(10)
#Create a distribution plot for rating
sns.distplot(pstore.like)
#Adding dark background to the graph
plt.style.use("dark_background")
#Change the number of bins
#sns.distplot(pstore.like, bins=20, kde = False, color='red')
#Plotting the scatter plot
#plt.scatter(pstore.share, pstore.like)
# Plotting the same thing now using a jointplot
sns.pairplot(pstore[['like', 'share', 'comment','Total Interactions']])
plt.show()
```

```
C:\Users\DELL\AppData\Local\Temp\ipykernel_2668\3779281333.py:7: UserWarni
ng:

`distplot` is a deprecated function and will be removed in seaborn v0.14.
0.

Please adapt your code to use either `displot` (a figure-level function wi
th
similar flexibility) or `histplot` (an axes-level function for histogram
s).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751 (https://
gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751)

  sns.distplot(pstore.like)
```


0.005
0.004
0.003
0.002
0.001
0.000
Density
0
1000
2000
3000
4000
5000
like


like
share
5000
4000
3000
2000
1000
0
800
600
400
200
0
300
200