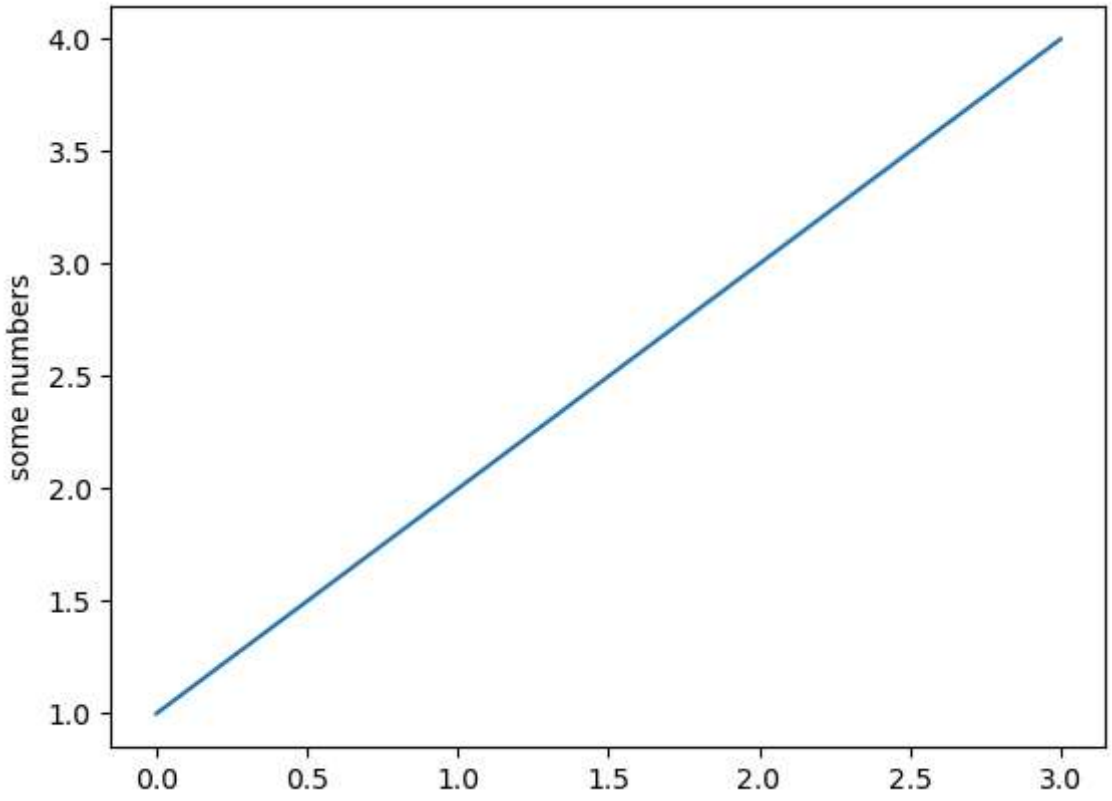
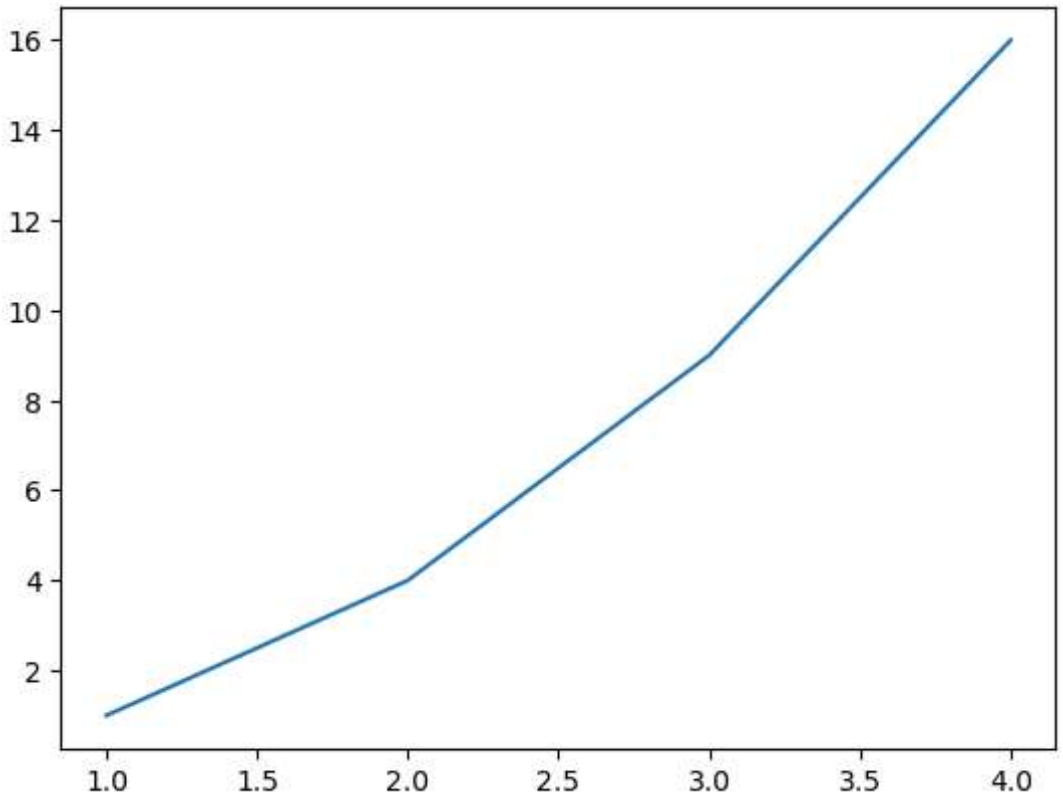
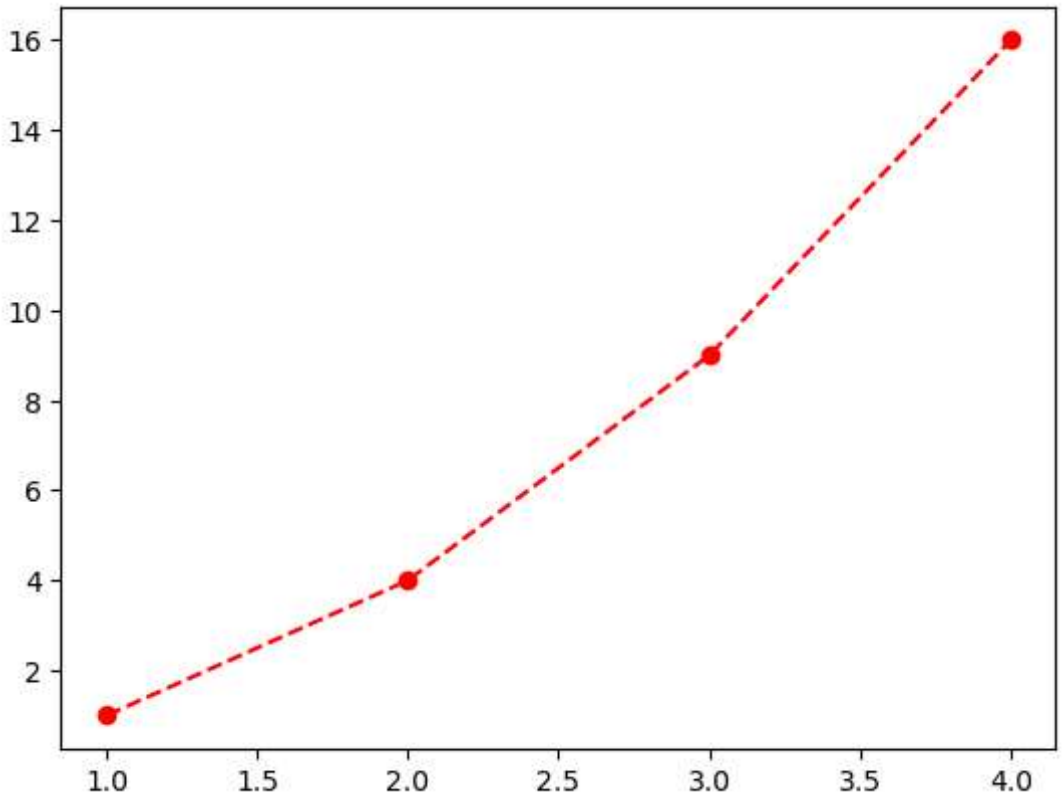
In [1]:
```
import matplotlib.pyplot as plt
plt.plot([1, 2, 3, 4])
plt.ylabel('some numbers')
plt.show()
```



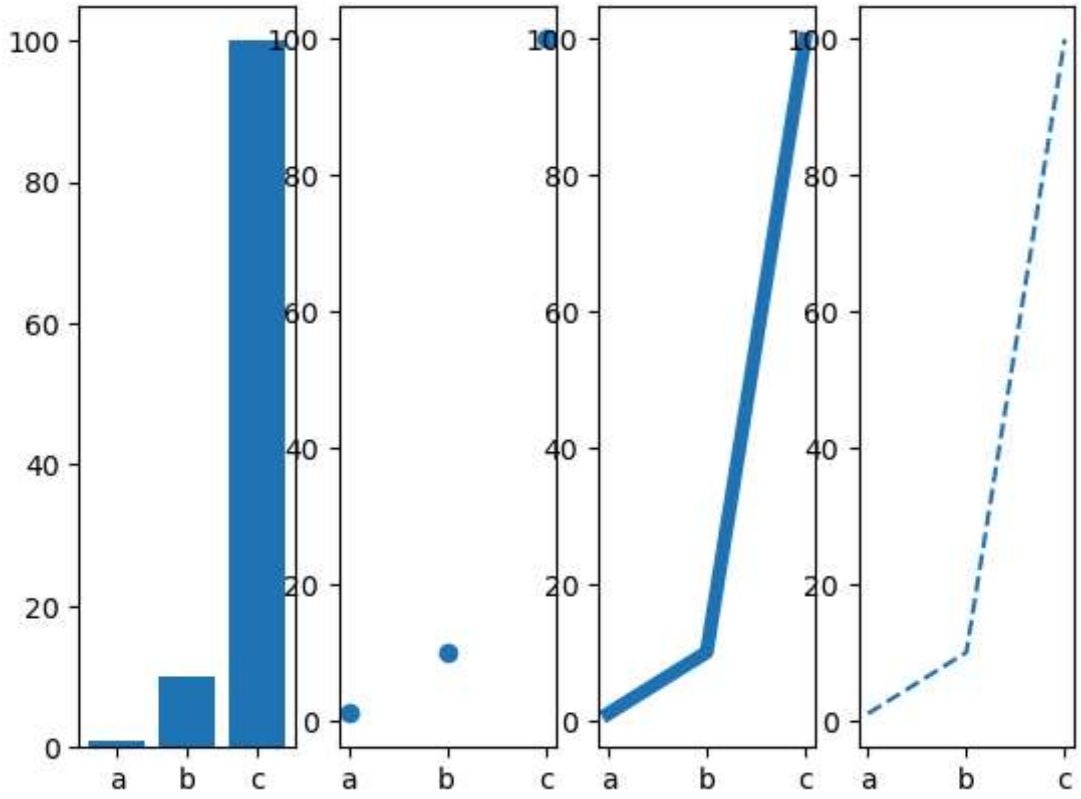
In [2]:
```
plt.plot([1, 2, 3, 4], [1, 4, 9, 16])
plt.show()
```



In [3]:
```
plt.plot([1, 2, 3, 4], [1, 4, 9, 16], 'ro')
plt.plot([1, 2, 3, 4], [1, 4, 9, 16], 'r--')
plt.show()
```

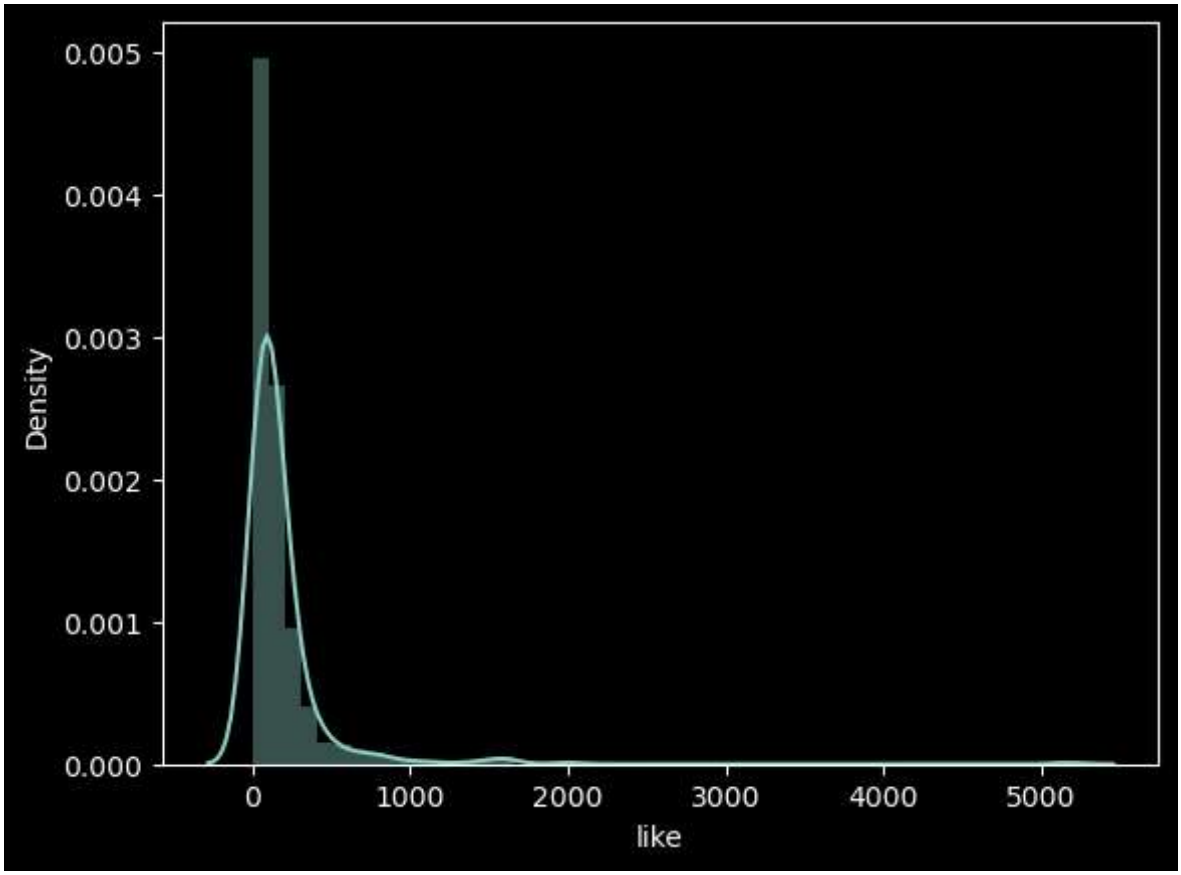


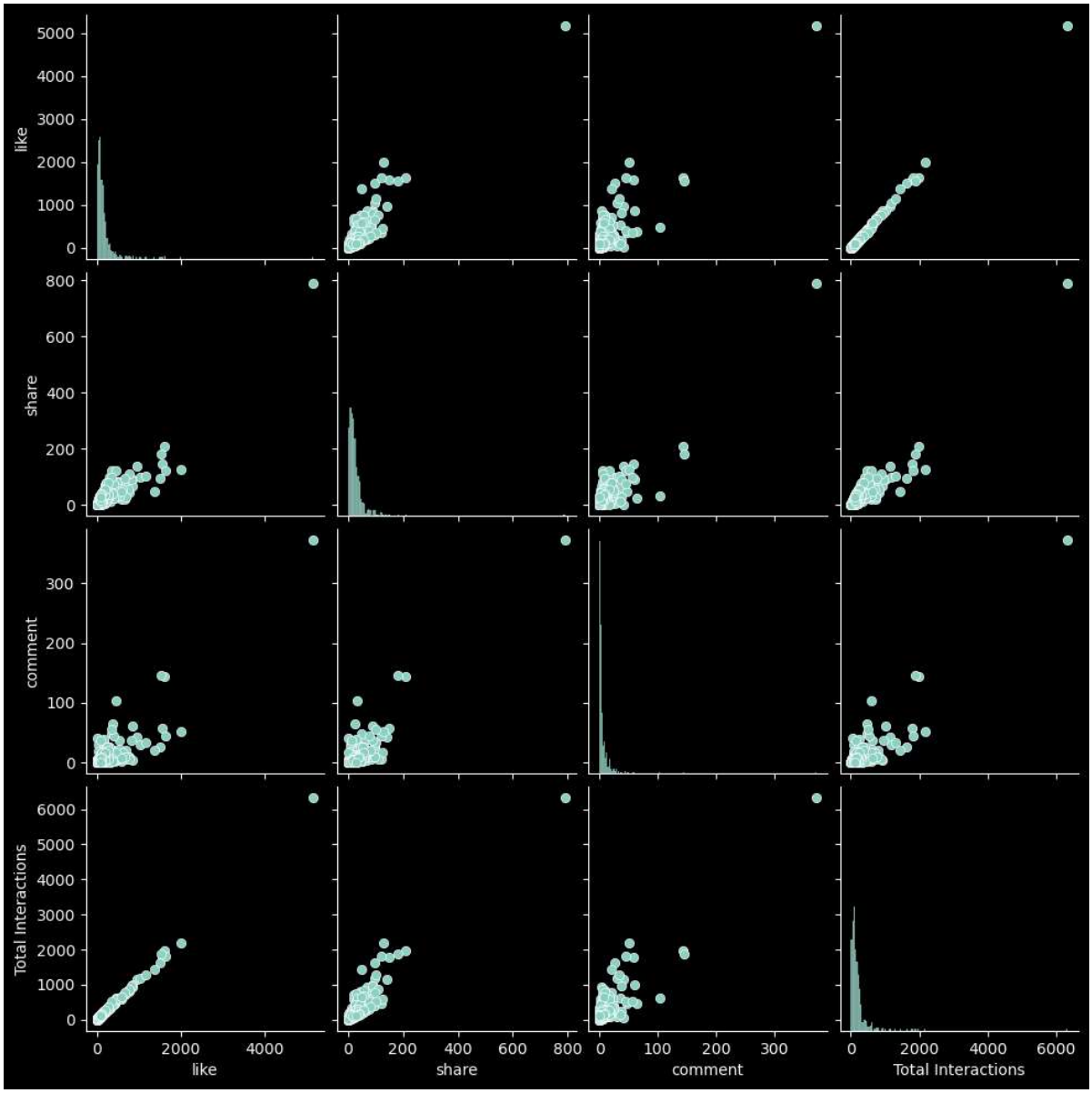
In [4]:
```
import matplotlib.pyplot as plt
names = ['a', 'b', 'c']
values = [1, 10, 100]
plt.subplot(141)
plt.bar(names, values)
plt.subplot(142)
plt.scatter(names, values)
plt.subplot(143)
plt.plot(names, values, linewidth=5.0)
plt.subplot(144)
plt.plot(names, values, '--')
plt.show()
```



In [6]:
```
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
pstore = pd.read_csv("C:\\Users\\Pranali\\Downloads\\dataset_Facebook.csv")
pstore.head(10)

sns.distplot(pstore.like)

plt.style.use("dark_background")

sns.pairplot(pstore[['like', 'share', 'comment','Total Interactions']])
plt.show()
```

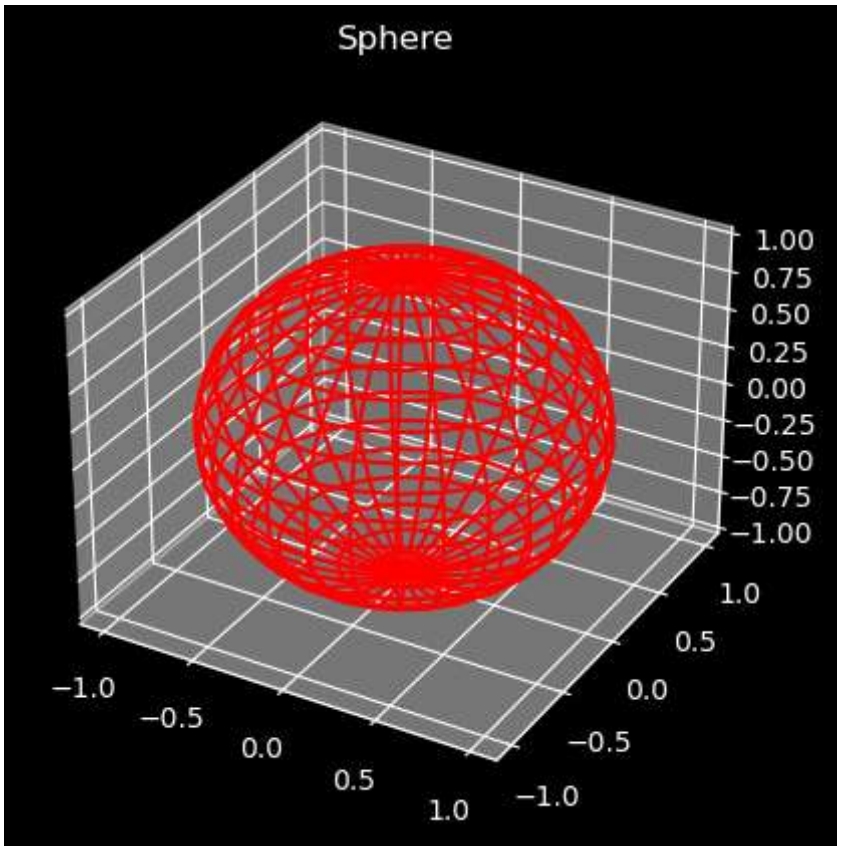
```
C:\Users\Pranali\AppData\Local\Temp\ipykernel_23092\3418008283.py:7: UserWarn
ing:

`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 with
similar flexibility) or `histplot` (an axes-level function for histograms).

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

  sns.distplot(pstore.like)
```



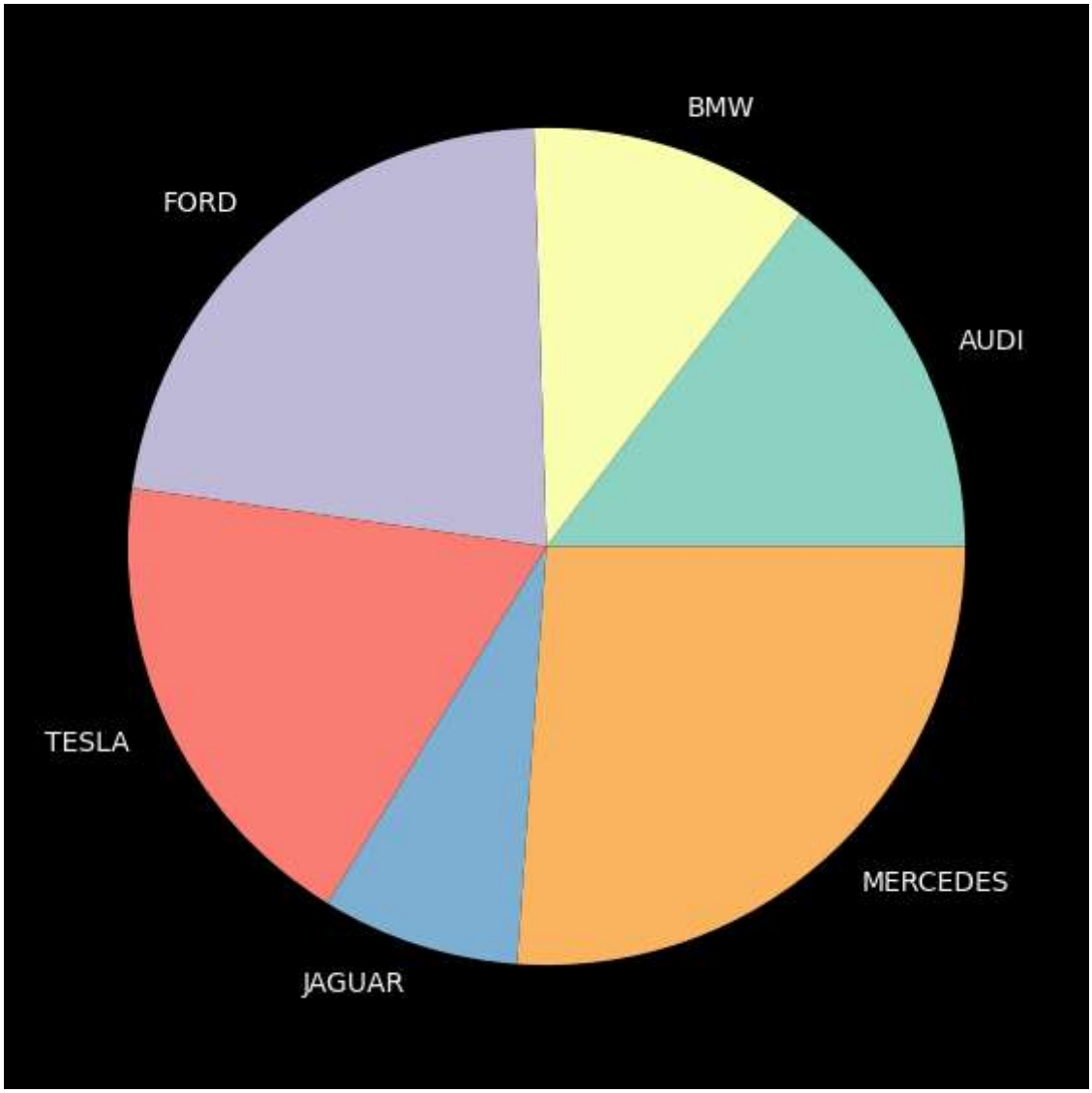

like
share
comment
Total Interactions
0
1000
2000
3000
4000
5000
0
200
400
600
800
0
100
200
300
0
1000
2000
3000
4000
5000
6000

In [7]:

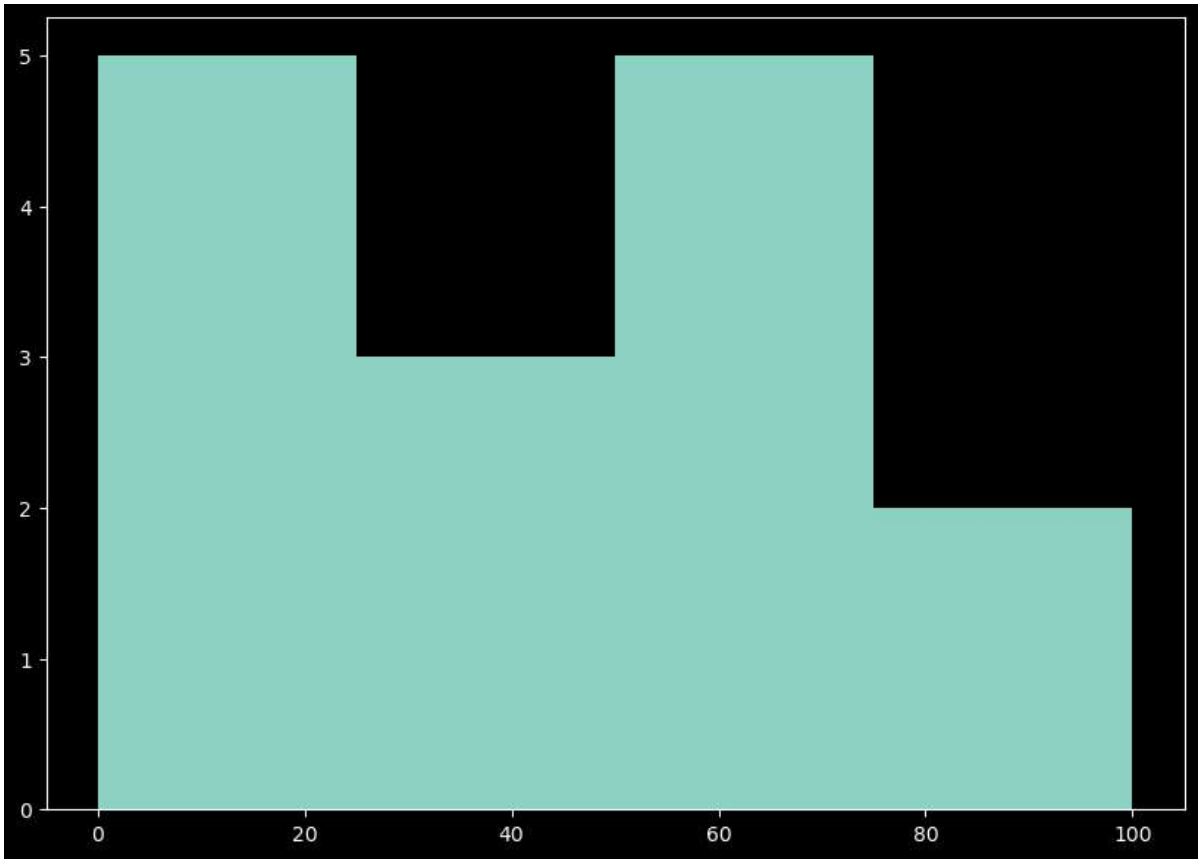
```
import matplotlib.pyplot as plt
import numpy as np
fig = plt.figure()
ax = fig.add_subplot(111, projection='3d')
u, v = np.mgrid[0:2 * np.pi:30j, 0:np.pi:20j]
x = np.cos(u) * np.sin(v)
y = np.sin(u) * np.sin(v)
z = np.cos(v)
ax.plot_wireframe(x, y, z, color="red")
ax.set_title("Sphere")
plt.show()
```



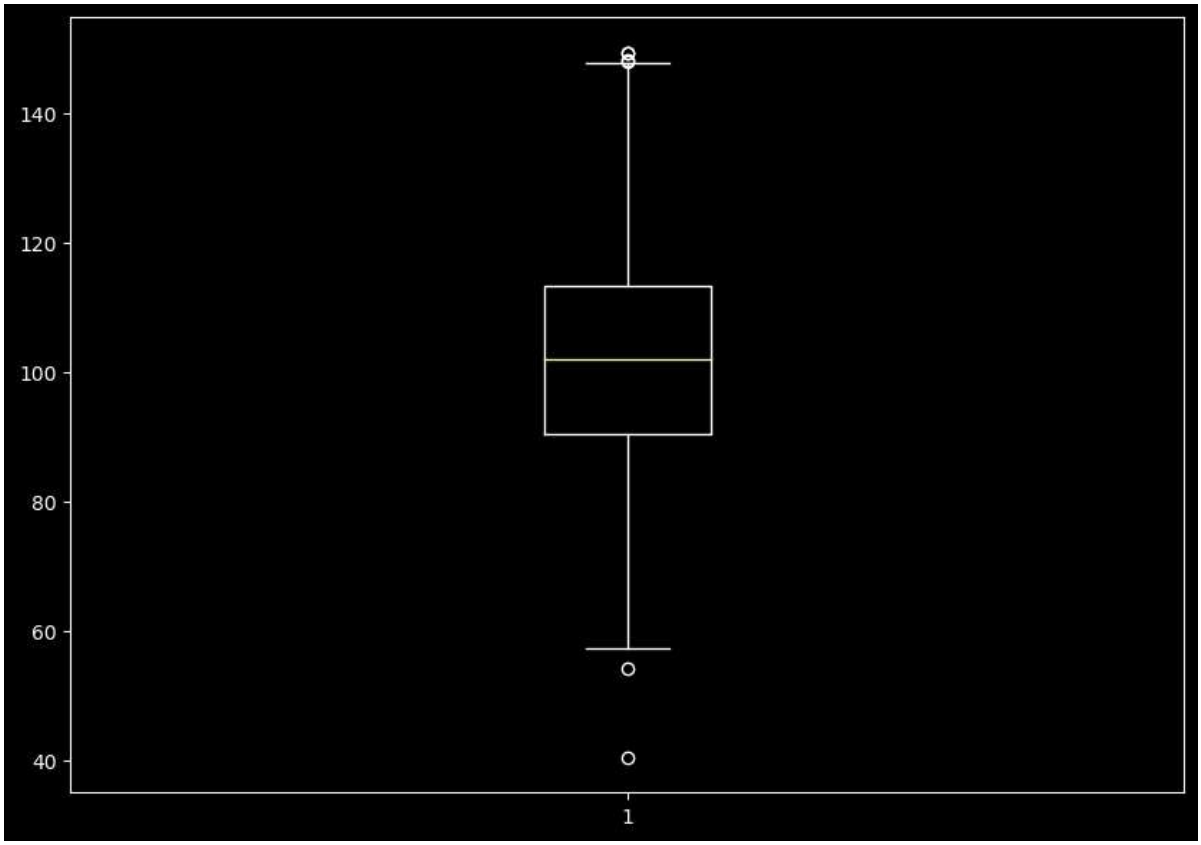
In [8]:
```
import matplotlib.pyplot as plt
import numpy as np
cars = ['AUDI', 'BMW', 'FORD', 'TESLA', 'JAGUAR', 'MERCEDES']
data = [23, 17, 35, 29, 12, 41]
fig = plt.figure(figsize =(10, 7))
plt.pie(data, labels = cars)
plt.show()
```



In [9]:
```
import matplotlib.pyplot as plt
import numpy as np
a = np.array([22, 87, 5, 43, 56, 73, 55, 54, 11, 20, 51, 5, 79, 31, 27])
fig, ax = plt.subplots(figsize =(10, 7))
ax.hist(a, bins = [0, 25, 50, 75, 100])
plt.show()
```



In [10]:
```
import matplotlib.pyplot as plt
import numpy as np
np.random.seed(10)
data = np.random.normal(100, 20, 200)
fig = plt.figure(figsize =(10, 7))
plt.boxplot(data)
plt.show()
```



In [ ]: