```
import matplotlib.pyplot as plt
import pandas as pd
```

In [3]:

In [2]:

df = pd.read_csv('Independence100.csv')
df.dropna(axis = 1,inplace = True)
df.head()

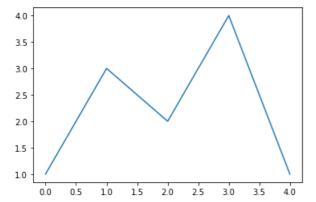
Out[3]:

	Rank	Restaurant	Sales	Average Check	City	State	Meals Served
0	1	Carmine's (Times Square)	39080335.0	40	New York	N.Y.	469803.0
1	2	The Boathouse Orlando	35218364.0	43	Orlando	Fla.	820819.0
2	3	Old Ebbitt Grill	29104017.0	33	Washington	D.C.	892830.0
3	4	LAVO Italian Restaurant & Nightclub	26916180.0	90	New York	N.Y.	198500.0
4	5	Bryant Park Grill & Cafe	26900000.0	62	New York	N.Y.	403000.0

In [4]:

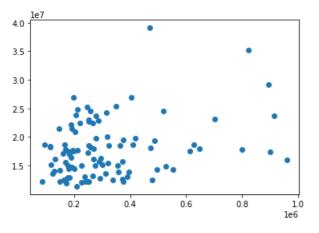
```
plt.plot([1,3,2,4,1])
plt.show()
```





In [10]:

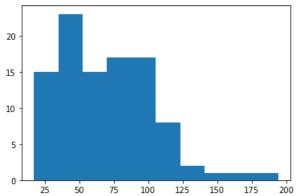




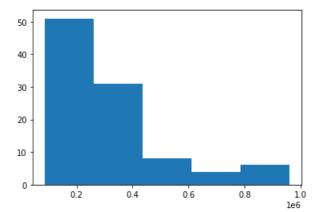
▼ In [6]:

plt.hist(df['Average Check'])

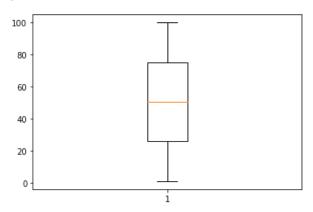
<BarContainer object of 10 artists>)



plt.hist(df['Meals Served'], bins = 5)
plt.show()



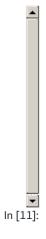
plt.boxplot(df['Rank'])
plt.show()



```
plt.scatter(x = df['Meals Served'], y = df['Sales'], color = 'black')
plt.xlabel('Meals Served')
plt.ylabel('Restaurant')
plt.title('Scatter plot between three scores')
plt.show()
```

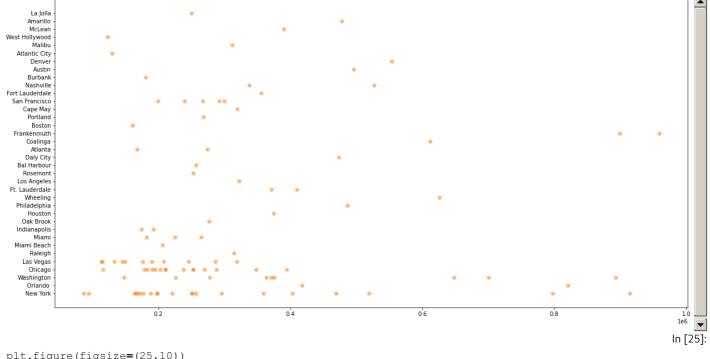






```
Scatter plot between three scores
  4.0
  3.5
  3.0
  2.5
  2.0
  1.5
                       0.4
                                  0.6
                                             0.8
                                                        1.0
                                                       1e6
                          Meals Served
                                                                                                                               In [15]:
plt.figure(figsize=(16,7))
plt.scatter(x = df['Meals Served'], y = df['Sales'], color = 'blue')
plt.xlabel('Meals Served')
plt.ylabel('Restaurant')
plt.title('Scatter plot between Two scores')
plt.show()
                                                      Scatter plot between Two scores
  4.0
  3.0
Restaurant
7
  2.0
  1.5
                         0.2
                                                  0.4
                                                                            0.6
                                                                                                                                 1.0
                                                               Meals Served
                                                                                                                               le6
                                                                                                                               In [17]:
plt.figure(figsize=(20,6))
plt.scatter(x = df['Meals Served'], y = df['Sales'])
plt.scatter(x = df['Meals Served'], y = df['Rank'])
plt.show()
4.0
3.5
3.0
2.5
2.0
0.5
0.0
                      0.2
                                                                            0.6
                                                                                                                                1.0
le6
                                                                                                                                    •
                                                                                                                               In [23]:
plt.figure(figsize=(20,10))
plt.scatter(x = df['Meals Served'], y = df['Sales'], alpha = 0.5)
plt.scatter(x = df['Meals Served'], y = df['City'], alpha = 0.5)
```

plt.show()



```
plt.figure(figsize=(25,10))
plt.scatter(x = df['Meals Served'], y = df['Restaurant'], alpha = 1, label = ' Rank')
plt.scatter(x = df['Meals Served'], y = df['Average Check'], alpha = 1, label = ' Sales ')
plt.legend()
plt.show()
```

