```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

dataframe = pd.read_csv(r'C:\Users\ASUS\Downloads\Important projects
to do(DS & MERN)\Zomato data .csv')
print(dataframe.head())
```

```
                  name online_order book_table   rate  votes  \
0                Jalsa          Yes        Yes  4.1/5    775
1        Spice Elephant          Yes         No  4.1/5    787
2       San Churro Cafe          Yes         No  3.8/5    918
3  Addhuri Udupi Bhojana           No         No  3.7/5     88
4          Grand Village           No         No  3.8/5    166

   approx_cost(for two people) listed_in(type)
0                           800          Buffet
1                           800          Buffet
2                           800          Buffet
3                           300          Buffet
4                           600          Buffet
```

```
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dataframe
```

```
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0                    Jalsa          Yes        Yes  4.1/5    775
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3    Addhuri Udupi Bhojana           No         No  3.7/5     88
4             Grand Village           No         No  3.8/5    166
..                      ...          ...        ...    ...    ...
143       Melting Melodies            No         No  3.3/5      0
144        New Indraprasta            No         No  3.3/5      0
145           Anna Kuteera          Yes         No  4.0/5    771
146                 Darbar           No         No  3.0/5     98
147          Vijayalakshmi          Yes         No  3.9/5     47

     approx_cost(for two people) listed_in(type)
0                            800          Buffet
1                            800          Buffet
2                            800          Buffet
3                            300          Buffet
4                            600          Buffet
..                           ...             ...
143                          100          Dining
144                          150          Dining
145                          450          Dining
```

```
146                            800          Dining
147                            200          Dining

[148 rows x 7 columns]
```

```
def handleRate(value):
    value = str(value).split('/')
    value = value[0];
    return float(value)

dataframe['rate'] = dataframe['rate'].apply(handleRate)
print(dataframe.head())
```

```
                     name online_order book_table  rate  votes  \
0                   Jalsa          Yes        Yes   4.1    775
1          Spice Elephant          Yes         No   4.1    787
2         San Churro Cafe          Yes         No   3.8    918
3  Addhuri Udupi Bhojana           No         No   3.7     88
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   approx_cost(for two people) listed_in(type)
0                           800          Buffet
1                           800          Buffet
2                           800          Buffet
3                           300          Buffet
4                           600          Buffet
```
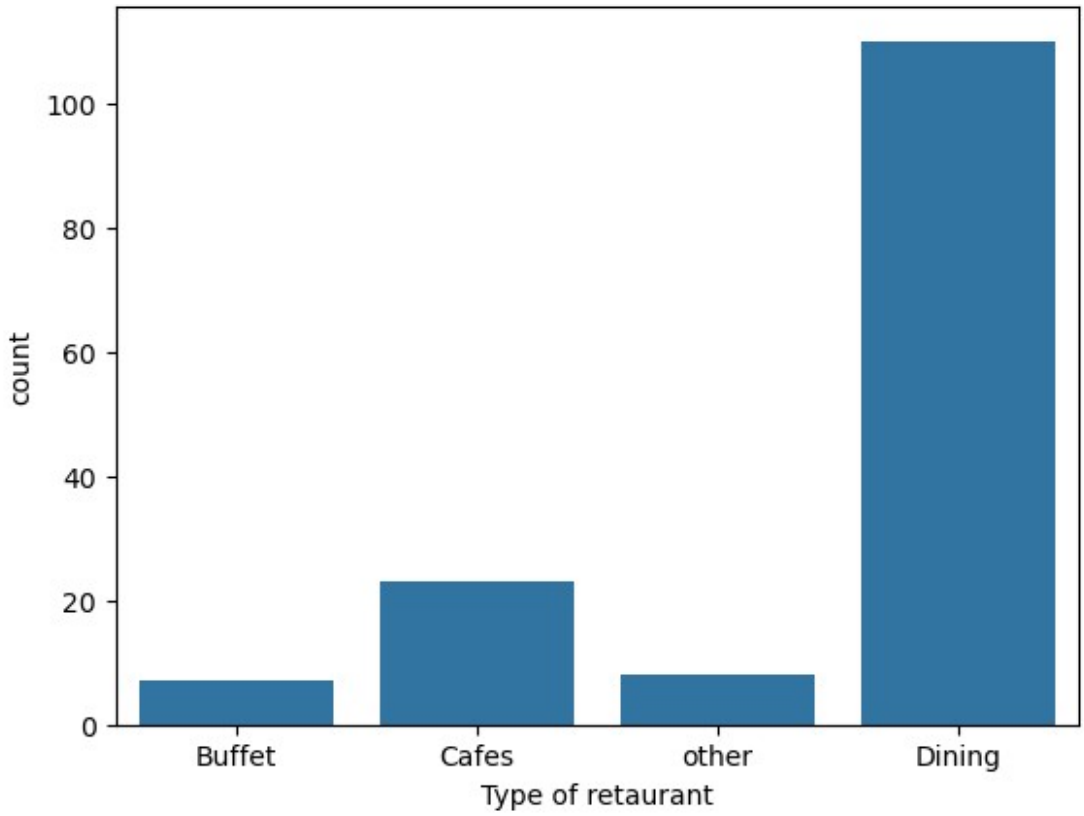

```
dataframe.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 148 entries, 0 to 147
Data columns (total 7 columns):
 #   Column                       Non-Null Count  Dtype
---  ------                       --------------  -----
 0   name                         148 non-null    object
 1   online_order                 148 non-null    object
 2   book_table                   148 non-null    object
 3   rate                         148 non-null    float64
 4   votes                        148 non-null    int64
 5   approx_cost(for two people)  148 non-null    int64
 6   listed_in(type)              148 non-null    object
dtypes: float64(1), int64(2), object(4)
memory usage: 8.2+ KB
```

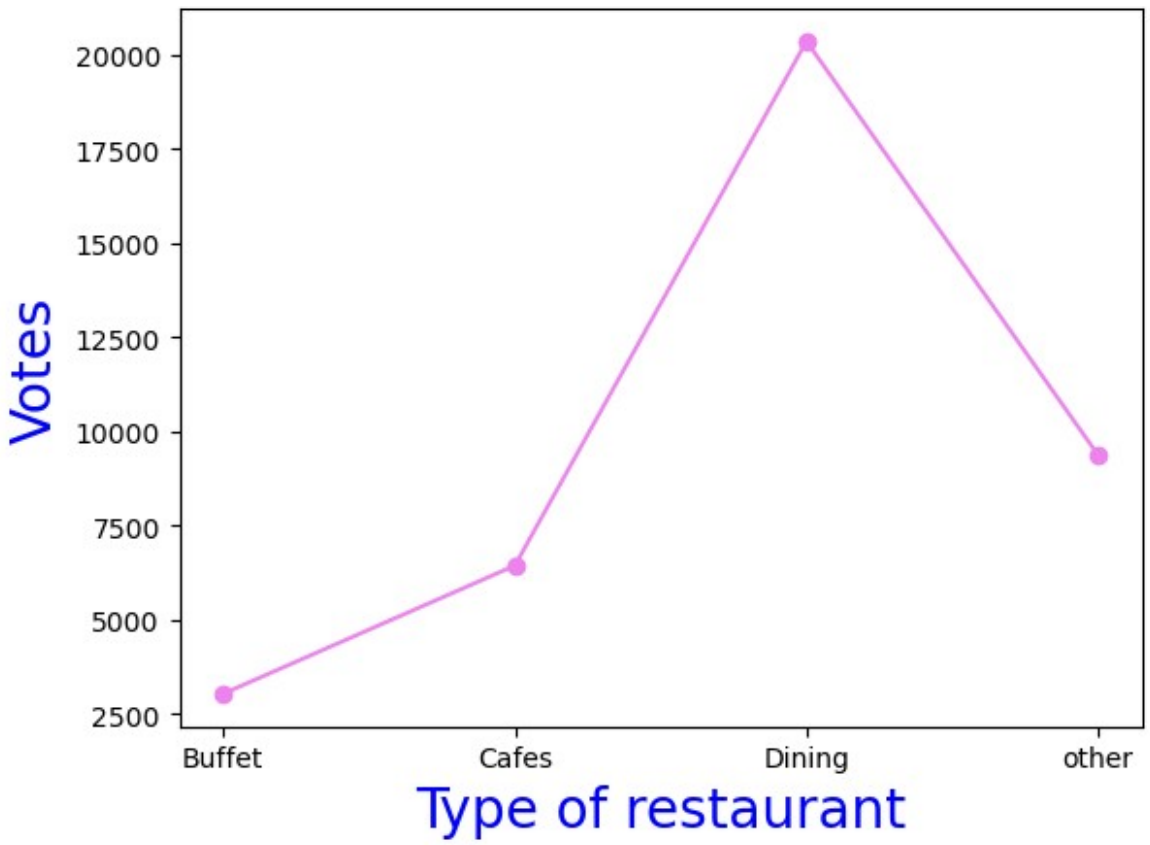
```
sns.countplot(x = dataframe['listed_in(type)'])
plt.xlabel("Type of retaurant")
```

```
Text(0.5, 0, 'Type of retaurant')
```

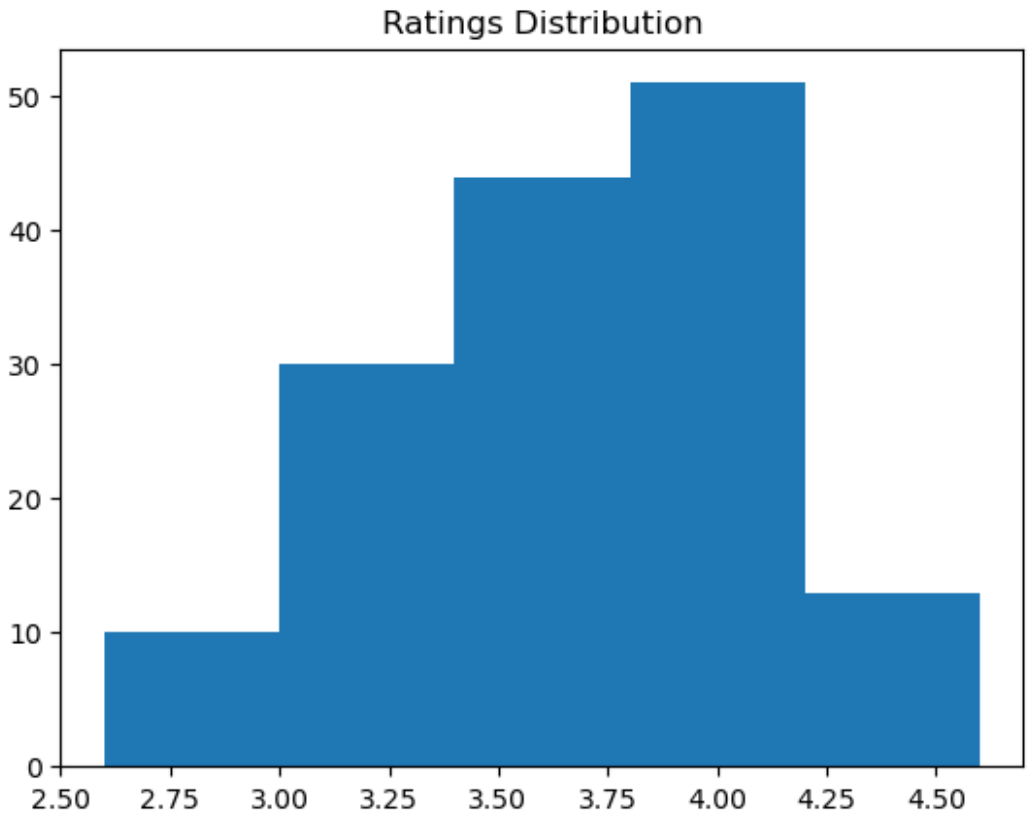



```
grouped_data = dataframe.groupby('listed_in(type)')['votes'].sum()
result = pd.DataFrame({'votes':grouped_data})
plt.plot(result, c="violet", marker ="o")
plt.xlabel("Type of restaurant", c="blue", size=20)
plt.ylabel("Votes", c="blue", size=20)
```

```
Text(0, 0.5, 'Votes')
```

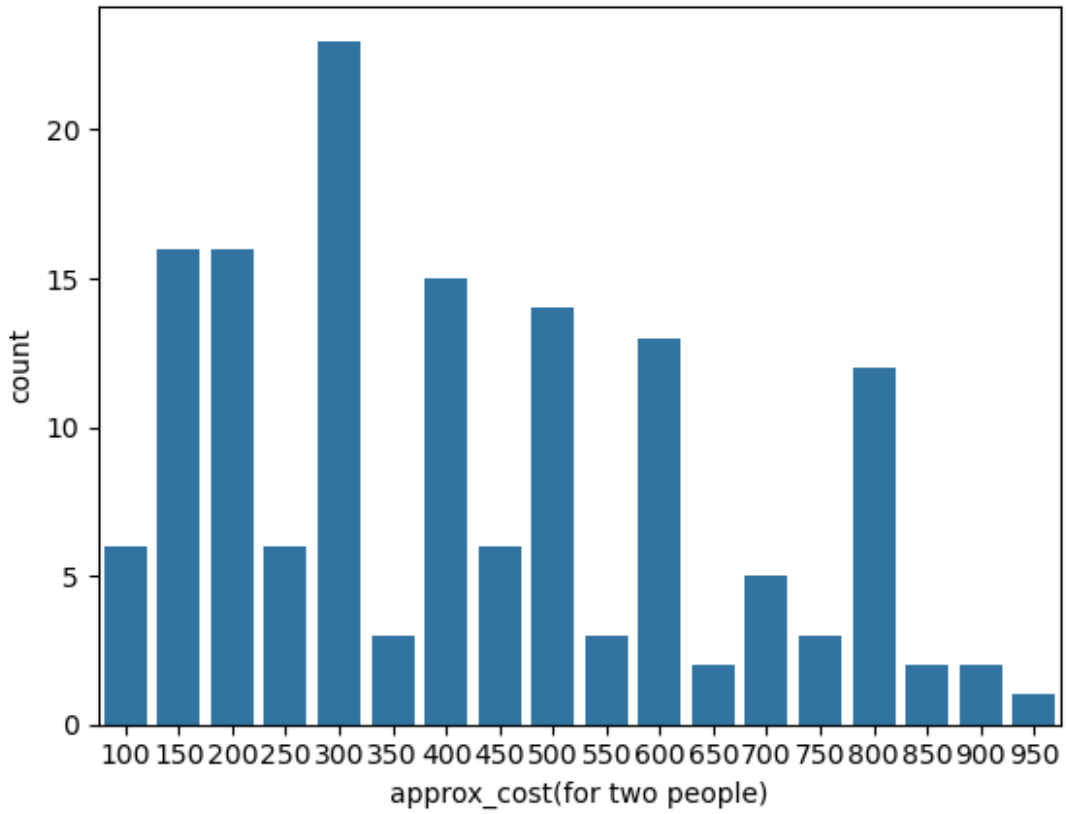



```
plt.hist(dataframe['rate'],bins=5)
plt.title("Ratings Distribution")
plt.show()
```



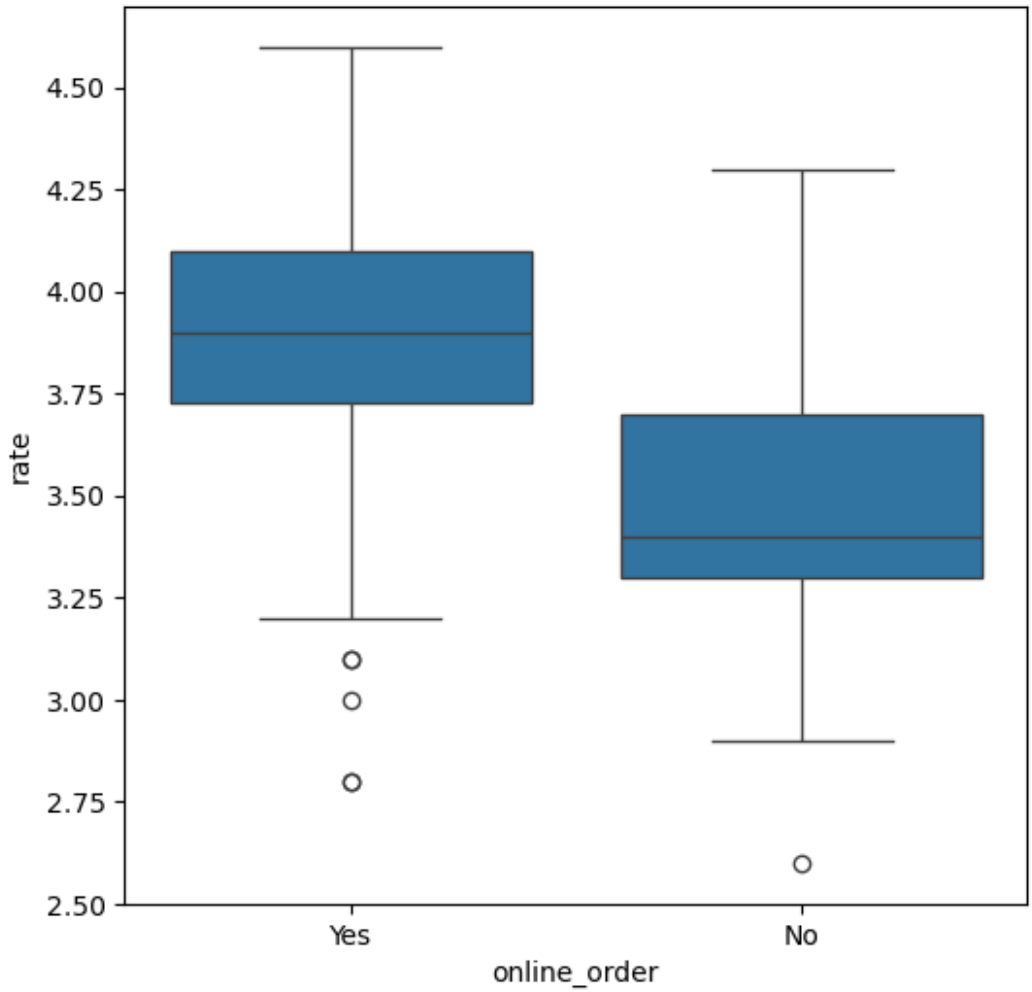

```
couple_data = dataframe['approx_cost(for two people)']
sns.countplot(x = couple_data)
```

```
<Axes: xlabel='approx_cost(for two people)', ylabel='count'>
```




```
plt.figure(figsize = (6,6))
sns.boxplot( x = 'online_order' , y = 'rate', data = dataframe)
```

```
<Axes: xlabel='online_order', ylabel='rate'>
```




```
pivot_table = dataframe.pivot_table(index = 'listed_in(type)',
columns='online_order', values='votes', aggfunc='count')
sns.heatmap(pivot_table, annot=True, cmap="YlGnBu", fmt ='d')
plt.title("Heatmap")
plt.xlabel("Online Order")
plt.ylabel("listedin(type)")
plt.show()
```


Heatmap
Buffet
Cafes
Dining
other
listedin(type)
3
4
8
15
77
33
2
6
No
Yes
Online Order
70
60
50
40
30
20
10