```
print(dataframe.head())
                            name online_order book_table rate votes \
                           Jalsa Yes Yes 4.1/5 775
                  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)
                                   800
                                                Buffet
                                   800
                                                Buffet
                                   800
                                                Buffet
                                   300
                                                Buffet
                                   600
                                                Buffet
In [257... 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 \
                          JalsaYesYes4.1775
                  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
4 Grand Village No No 3.8 166
           approx_cost(for two people) listed_in(type)
                                   800
                                                Buffet
                                   800
                                                Buffet
                                   800
                                                Buffet
                                   300
                                                Buffet
                                   600
                                                Buffet
In [258... print(dataframe.isnull().sum())
        name
        online_order
        book_table
        rate
        approx_cost(for two people) 0
        listed_in(type)
        dtype: int64
In [259... dataframe.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 148 entries, 0 to 147
        Data columns (total 7 columns):
                      Non-Null Count Dtype
-----
148 non-null object
rder
148 non-null object
le
148 non-null object
148 non-null float64
148 non-null int64
         # Column
        ---
         0 name
         1 online_order
         2 book_table
         3 rate
         4 votes
        5 approx_cost(for two people) 148 non-null int64
6 listed_in(type) 148 non-null object
         6 listed_in(type)
        dtypes: float64(1), int64(2), object(4)
        memory usage: 8.2+ KB
In [260... sns.countplot(x=dataframe['listed_in(type)'])
         plt.xlabel("Type of restaurant")
Out[260... Text(0.5, 0, 'Type of restaurant')
           100
            80
        count
            60
            40
            20
                     Buffet
                                     Cafes
                                                     other
                                                                     Dining
                                       Type of restaurant
In [261... import pandas as pd
         import matplotlib.pyplot as plt
         # Grouping by 'listed_in(type)' and summing votes
         grouped_data = dataframe.groupby('listed_in(type)')['votes'].sum()
         # Convert to DataFrame (optional)
         result = pd.DataFrame({'votes': grouped_data})
         # Plot with index as x-axis
         plt.plot(result.index, result['votes'], c='green', marker='o')
         plt.xlabel('Type of restaurant')
         plt.ylabel('Votes')
         plt.title('Votes by Restaurant Type')
         plt.show()
                                    Votes by Restaurant Type
           20000 -
           17500 -
           15000 -
        S 12500 -
           10000 -
            7500 ·
            5000 -
            2500 -
                                     Cafes
                  Buffet
                                                         Dining
                                                                             other
                                          Type of restaurant
In [262... max_votes = dataframe['votes'].max()
         restaurant_with_max_votes = dataframe.loc[dataframe['votes'] == max_votes, 'name']
         print('Restaurant(s) with the maximum votes:')
         print(restaurant_with_max_votes)
        Restaurant(s) with the maximum votes:
        38 Empire Restaurant
        Name: name, dtype: object
In [263... sns.countplot(x=dataframe['online_order'])
Out[263... <Axes: xlabel='online_order', ylabel='count'>
           80
           60
           20
                             Yes
                                                             No
                                         online_order
In [264... plt.hist(dataframe['rate'],bins=5)
         plt.title('Rating Distribution')
         plt.show()
                                  Rating Distribution
        50
         40
        30
        20
          2.50 2.75 3.00 3.25 3.50 3.75 4.00 4.25 4.50
In [265... couple_data = dataframe['approx_cost(for two people)']
         sns.countplot(x=couple_data)
Out [265... <Axes: xlabel='approx_cost(for two people)', ylabel='count'>
           20
           15
              100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950
                                  approx_cost(for two people)
In [266... plt.figure(figsize=(6,6))
         sns.boxplot(x='online_order', y='rate', data = dataframe)
Out[266... <Axes: xlabel='online_order', ylabel='rate'>
           4.50
           4.25
           4.00
           3.75
     3.50 <sup>J</sup>
           3.25
                              0
           3.00
           2.75
           2.50
                                                            No
                              Yes
                                         online_order
In [267... pivot_table = dataframe.pivot_table(index='listed_in(type)', columns='online_order', aggfunc='size', fill_value=0)
         sns.heatmap(pivot_table, annot=True, cmap='YlGnBu', fmt='d')
         plt.title('Heatmap')
         plt.xlabel('Online Order')
         plt.ylabel('Listed In (Type)')
```

In [255... import pandas as pd

plt.show()

import numpy as np

import seaborn as sns

import matplotlib.pyplot as plt

In [256... dataframe=pd.read_csv("C:\\Users\\saila\\OneDrive\\Documents\\Downloads\\Zomato-data-.csv")

