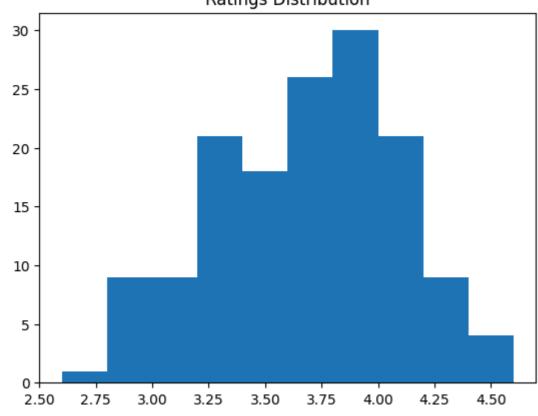
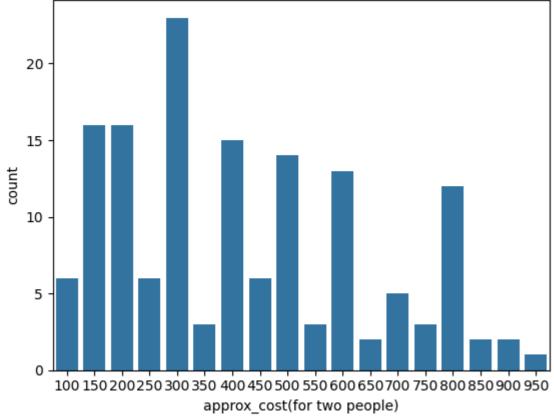
```
In [4]: #import libraries
         import pandas as pd #for data analysis
         import numpy as np #for numerical operations
         import matplotlib.pyplot as plt # for data visualisation
         import seaborn as sns
 In [7]: #create data frames to read the csv file in jupyter notebook
         dataframe = pd.read_csv("zomato data .csv")
 In [8]: dataframe
                          name online_order book_table rate votes approx_cost(for two people) listed_in(type)
           0
                          Jalsa
                                      Yes
                                               Yes 4.1/5 775
                                                                                          Buffet
                   Spice Elephant
                                      Yes
                                                No 4.1/5 787
                                                                                800
                                                                                          Buffet
                  San Churro Cafe
                                                                                800
                                                                                          Buffet
                                      Yes
                                                No 3.8/5 918
          3 Addhuri Udupi Bhojana
                                                No 3.7/5 88
                                                                                300
                                                                                          Buffet
          4
                    Grand Village
                                      No
                                                No 3.8/5 166
                                                                                600
                                                                                          Buffet
                  Melting Melodies
         143
                                      No
                                                No 3.3/5 0
                                                                                100
                                                                                         Dining
                                                                                150
         144
                                      No
                                                No 3.3/5 0
                  New Indraprasta
                                                                                         Dining
                    Anna Kuteera
         145
                                      Yes
                                                No 4.0/5 771
                                                                                450
                                                                                         Dining
         146
                         Darbar
                                                No 3.0/5 98
                                                                                800
                                       No
                                                                                         Dining
         147
                    Vijayalakshmi
                                                No 3.9/5 47
                                                                                200
                                                                                         Dining
        148 rows × 7 columns
 In [9]: #cleaning the data - col rate
         def RateChange(value):
            value=str(value).split('/')
            value=value[0];
            return float(value)
         dataframe['rate'] = dataframe['rate'].apply(RateChange)
         print(dataframe.head())
                          name online_order book_table rate votes \
                         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
                  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 [10]: #checking summary to see any null value
         dataframe.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 148 entries, 0 to 147
        Data columns (total 7 columns):
                                        Non-Null Count Dtype
         # Column
         0 name
                                        148 non-null object
                                        148 non-null object
            online_order
            book_table
                                        148 non-null object
                                        148 non-null float64
            rate
         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
In [11]: #Which type of restaurant do most customers typically order from?
         sns.countplot(x=dataframe['listed_in(type)'])
         plt.xlabel("type of restaurant")
Out[11]: Text(0.5, 0, 'type of restaurant')
          100
           80
        count
           60
           40
           20
                    Buffet
                                    Cafes
                                                   other
                                                                  Dining
                                      type of restaurant
In [18]: #which type of restaurant has more number of votes
         grouped_data = dataframe.groupby('listed_in(type)') ['votes'].sum()
         result= pd.DataFrame({'votes' : grouped_data})
         plt.plot(result, c="green", marker="o")
         plt.xlabel("Type of Restaurant", c="orange", size=24)
         plt.ylabel("votes", c="orange", size= 24)
Out[18]: Text(0, 0.5, 'votes')
             20000 -
             17500
             15000 -
        Votes
             12500
             10000
              7500
              5000
              2500
                                      Cafes
                                                        Dining
                                                                            other
                    Buffet
                               Type of Restaurant
In [19]: #What are the ratings that most restaurants have earned
         plt.hist(dataframe['rate'], bins= 10)
         plt.title("Ratings Distribution")
         plt.show()
                                Ratings Distribution
        30
        25
```



In [20]: #what is the average cost spending of two people couple\_data=dataframe['approx\_cost(for two people)'] sns.countplot(x=couple\_data)

Out[20]: <Axes: xlabel='approx\_cost(for two people)', ylabel='count'>



In [23]: #which mode receives maximum rating sns.boxplot(x = 'online\_order', y = 'rate', data = dataframe)

Out[23]: <Axes: xlabel='online\_order', ylabel='rate'>

