**Zomato Example:**

**Program 1:**

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import seaborn as sns

dataframe = pd.read\_csv("Zomatodata.csv")

print(dataframe.head())

**Program 2**

def handleRate(value):

value=str(value).split('/')

value=value[0];

return float(value)

dataframe['rate']=dataframe['rate'].apply(handleRate)

print(dataframe.head())

Program 3:

dataframe.info()

Program 4:

import seaborn as sns

sns.countplot(x=dataframe['listed\_in(type)'])

plt.xlabel("Type of restaurant")

Program 5:

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="red", size=20)

plt.ylabel("Votes", c="red", size=20)

Program 6:

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)

Program 7:

plt.hist(dataframe['rate'],bins=5)

plt.title("Ratings Distribution")

plt.show()

Program 8:

couple\_data=dataframe['approx\_cost(for two people)']

sns.countplot(x=couple\_data)

Program 9:

plt.figure(figsize = (6,6))

sns.boxplot(x = 'online\_order', y = 'rate', data = dataframe)

Program 10:

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)")

plt.show()

**Total Outputs for above programs:**

**Program1:**

name ... listed\_in(type)

0 Jalsa ... Buffet

1 Spice Elephant ... Buffet

2 San Churro Cafe ... Buffet

3 Addhuri Udupi Bhojana ... Buffet

4 Grand Village ... Buffet

[5 rows x 7 columns]

**Example4:**

import matplotlib.pyplot as plt

a=[1,2,3,4,5,10]

b=[0,0.6,0.2,15,10,8,16,21]

c=[4,2,6,8,3,20,13,15]

fig=plt.figure(figsize=(10,10))

sub1=plt.subplot(2,2,1)

sub2=plt.subplot(2,2,2)

sub3=plt.subplot(2,2,3)

sub4=plt.subplot(2,2,4)

sub1.plot(a,'sb')

sub1.set\_xticks(list(range(0,10,1)))

sub1.set\_title('1st Rep')

sub2.plot(b,'or')

sub2.set\_xticks(list(range(0,10,2)))

sub2.set\_title('2nd Rep')

sub3.plot(list(range(0,22,3)), 'vg')

sub3.set\_xticks(list(range(0,10,1)))

sub3.set\_title('3rd Rep')

sub4.plot(c,'Dm')

sub4.set\_yticks(list(range(0,24,2)))

sub4.set\_title('4th Rep')

plt.show()