ZOMATO SALES ANALYSIS

IMPORTING LIBRARIES

In [7]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

In [66]:
```
data = pd.read_csv('Zomato.csv')
```

In [68]:
```
data.head(5)
```

Out[68]:

	name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(t
0	Jalsa	Yes	Yes	4.1/5	775	800	B
1	Spice Elephant	Yes	No	4.1/5	787	800	B
2	San Churro Cafe	Yes	No	3.8/5	918	800	B
3	Addhuri Udupi Bhojana	No	No	3.7/5	88	300	B
4	Grand Village	No	No	3.8/5	166	600	B

DATA CLEANING

In [70]:
```
def rating(value):
    value = str(value).split('/')
    value = value[0];
    return float(value)

data['rate'] = data['rate'].apply(rating)
print(df.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
4          Grand Village           No         No   3.8    166

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

In [72]:
```
data.head(3)
```

Out[72]:

	name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(ty
0	Jalsa	Yes	Yes	4.1	775	800	B
1	Spice Elephant	Yes	No	4.1	787	800	B
2	San Churro Cafe	Yes	No	3.8	918	800	B

In [74]:
```
data.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
```

In [76]:
```
print(data.isnull().sum())
```

```
name                           0
online_order                   0
book_table                     0
rate                           0
votes                          0
approx_cost(for two people)    0
listed_in(type)                0
dtype: int64
```

Type of Restraunt

In [78]:
```
data.head()
```

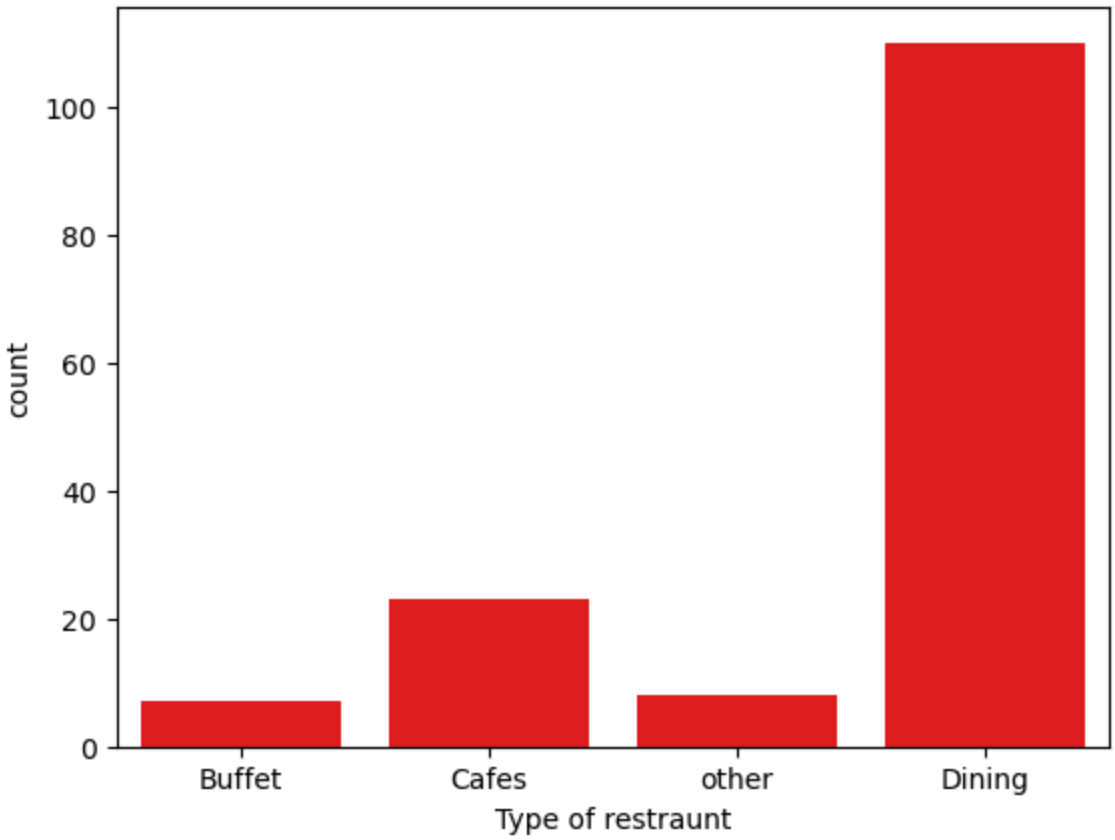
Out[78]:

	name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(ty
0	Jalsa	Yes	Yes	4.1	775	800	B
1	Spice Elephant	Yes	No	4.1	787	800	B
2	San Churro Cafe	Yes	No	3.8	918	800	B
3	Addhuri Udupi Bhojana	No	No	3.7	88	300	B
4	Grand Village	No	No	3.8	166	600	B

What types of restraint do the majority of coustomer order from?

In [80]:
```
sns.countplot(x = data['listed_in(type)'] , color = 'r')
plt.xlabel('Type of restraunt')
```

Out[80]:
```
Text(0.5, 0, 'Type of restraunt')
```



CONCLUSION - So here we can see that maxmium people likes to eat in a dining

How may votes has each type of restraunt received from coustomer ?

In [96]:
```
grouped_data = df.groupby('listed_in(type)')['votes'].sum()
result = pd.data({'votes' : grouped_data})
plt.plot(result , c = 'green' , marker = 'o')
plt.xlabel('TYPES OF RESTRAUNT' , c = 'red' , size = 20)
plt.xlabel('VOTES' , c = 'green' , size = 20)
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
Cell In[96], line 2
      1 grouped_data = df.groupby('listed_in(type)')['votes'].sum()
----> 2 result = pd.data({'votes' : grouped_data})
      3 plt.plot(result , c = 'green' , marker = 'o')
      4 plt.xlabel('TYPES OF RESTRAUNT' , c = 'red' , size = 20)

AttributeError: module 'pandas' has no attribute 'data'
```

In [ ]:
```
```