```
In [1]:
```

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

In [2]:

```
dataset=pd.read_csv('/content/Swiggy data.csv')
```

In [3]:

dataset.head()

Out[3]:

	Shop_Name	Cuisine	Location	Rating	Cost_for_Two
0	Kanti Sweets	Sweets	Koramangala, Koramangala	4.3	₹ 150
1	Mumbai Tiffin	North Indian, Home Food, Thalis, Combo	Sector 5, HSR	4.4	₹ 400
2	Sri Krishna sagar	South Indian, North Indian, Fast Food, Beverag	6th Block, Koramangala	4.1	₹ 126
3	Al Daaz	American, Arabian, Chinese, Desserts, Fast Foo	HSR, HSR	4.4	₹ 400
4	Beijing Bites	Chinese, Thai	5th Block, Koramangala	4.1	₹ 450

In [4]:

```
#finding null values.
dataset.isnull().sum()
```

Out[4]:

Shop_Name 0
Cuisine 0
Location 0
Rating 0
Cost_for_Two 0
dtype: int64

In [5]:

#No null values are present in the dataset.

In [6]:

dataset.describe()

Out[6]:

	Shop_Name	Cuisine	Location	Rating	Cost_for_Two
count	118	118	118	118	118
unique	115	79	65	13	30
top	La Pino'z Pizza	North Indian	втм, втм	4.1	₹ 300
freq	2	12	13	30	16

Column Non-Null Count Dtype

In [7]:

```
dataset.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 118 entries, 0 to 117
Data columns (total 5 columns):
```

```
0
   Shop Name
                   118 non-null
                                   object
 1
   Cuisine
                   118 non-null
                                   object
 2
   Location
                   118 non-null
                                   object
    Rating
                   118 non-null
                                   object
    Cost for Two 118 non-null
                                   object
 4
dtypes: object(5)
memory usage: 4.7+ KB
In [8]:
dataset.duplicated().sum()
Out[8]:
In [9]:
#No rows in the dataset are duplicated hence no need to remove them.
In [10]:
dataset.columns
Out[10]:
Index(['Shop_Name', 'Cuisine', 'Location', 'Rating', 'Cost_for_Two'], dtype='object')
In [11]:
#We need to see values of Rating column to find why its datatype is object
#and not float.
In [12]:
dataset['Rating'].unique()
Out[12]:
array(['4.3', '4.4', '4.1', '4.2', '3.9', '3.8', '4', '3.7', '3.6', '4.8',
       '4.5', '4.6', '--'], dtype=object)
In [13]:
#Rating column has a value as -- so we need to replace that value by 0.
In [14]:
dataset['Rating'] = dataset['Rating'].str.replace('--','0').astype(float)
In [15]:
dataset['Rating'].unique()
Out[15]:
array([4.3, 4.4, 4.1, 4.2, 3.9, 3.8, 4., 3.7, 3.6, 4.8, 4.5, 4.6, 0.])
In [16]:
dataset['Rating'].dtype
Out[16]:
dtype('float64')
In [17]:
#So we successfully converted the Rating column into float datatype.
In [18]:
```

```
dataset.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 118 entries, 0 to 117
Data columns (total 5 columns):
   Column
                    Non-Null Count Dtype
 #
                     _____
 0
   Shop Name
                    118 non-null
                                      object
 1
   Cuisine
                    118 non-null
                                      object
 2
    Location
                    118 non-null
                                      object
 3
    Rating
                    118 non-null
                                      float64
     Cost_for_Two 118 non-null
 4
                                      object
dtypes: float64(1), object(4)
memory usage: 4.7+ KB
In [19]:
#now checking Cost for Two column.
In [20]:
dataset['Cost for Two'].unique()
Out [20]:
array(['₹ 150', '₹ 400', '₹ 126', '₹ 450', '₹ 350', '₹ 200', '₹ 500', '₹ 247', '₹ 550', '₹ 300', '₹ 129', '₹ 250', '₹ 268', '₹ 600', '₹ 527', '₹ 130', '₹ 257', '₹ 280', '₹ 399', '₹ 220', '₹ 800',
        '₹ 100', '₹ 178', '₹ 120', '₹ 251', '₹ 650', '₹ 132', '₹ 153',
        '₹ 219', '₹ 193'], dtype=object)
In [21]:
#Due to symbol the datatype is object so we need to remove the symbol.
In [22]:
def remove(string):
  cost=string.split(' ')[1] #to get only no.
  return cost
#FUNCTION TO GET ONLY NUMERICAL PART.
In [23]:
dataset['Cost for Two'] = dataset['Cost for Two'].apply(remove)
#applying remove function in cost for two column.
In [24]:
#changing datatype to integer.
dataset['Cost for Two'] = dataset['Cost for Two'].astype('int')
In [25]:
dataset['Cost for Two'].unique()
Out[25]:
array([150, 400, 126, 450, 350, 200, 500, 247, 550, 300, 129, 250, 268,
        600, 527, 130, 257, 280, 399, 220, 800, 100, 178, 120, 251, 650,
       132, 153, 219, 193])
In [26]:
dataset['Cost for Two'].dtype
Out[26]:
dtype('int64')
In [27]:
```

#so we successfully converted the datatype into integer and also removed symbols.

```
In [28]:
dataset.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 118 entries, 0 to 117
Data columns (total 5 columns):
 # Column
                 Non-Null Count Dtype
                 118 non-null object
0
   Shop_Name
1
   Cuisine
                 118 non-null object
2 Location
                 118 non-null object
3
   Rating
                 118 non-null
                                float64
 4 Cost for Two 118 non-null
                                int64
dtypes: float64(1), int64(1), object(3)
memory usage: 4.7+ KB
In [29]:
#changing column name Cost_for_Two to Cost_for_Two_In_₹.
dataset.rename(columns={'Cost for Two':'Cost for Two In ₹'},inplace=True)
In [30]:
dataset.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 118 entries, 0 to 117
Data columns (total 5 columns):
   Column
                      Non-Null Count Dtype
                       -----
   Shop Name
                      118 non-null
0
                                      object
   Cuisine
1
                       118 non-null
                                      object
   Location
2
                       118 non-null
                                      object
 3
    Rating
                       118 non-null
                                      float64
4 Cost_for_Two_In_₹ 118 non-null
                                      int.64
dtypes: float64(1), int64(1), object(3)
memory usage: 4.7+ KB
In [31]:
#The other column's datatypes need not be changed as thay are strings/characters.
```

#So preprocessing of dataset is completed.

In [32]:

```
#Distibution Of Rating Column
sns.distplot(dataset['Rating'])
```

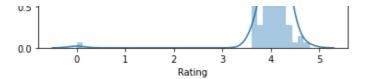
/usr/local/lib/python3.8/dist-packages/seaborn/distributions.py:2619: FutureWarning: `dis tplot` is a deprecated function and will be removed in a future version. Please adapt you r code to use either `displot` (a figure-level function with similar flexibility) or `his tplot` (an axes-level function for histograms).

warnings.warn(msg, FutureWarning)

Out[32]:

<matplotlib.axes. subplots.AxesSubplot at 0x7fcbb48b7be0>





In [33]:

```
#Many ratings are 0 .
#We filter dataset so that Rating > 0.
```

In [34]:

```
df_Ratings = dataset[dataset['Rating'] > 0]
df_Ratings
```

Out[34]:

	Shop_Name	Cuisine	Location	Rating	Cost_for_Two_In_₹
0	Kanti Sweets	Sweets	Koramangala, Koramangala	4.3	150
1	Mumbai Tiffin	North Indian, Home Food, Thalis, Combo	Sector 5, HSR	4.4	400
2	Sri Krishna sagar	South Indian, North Indian, Fast Food, Beverag	6th Block, Koramangala	4.1	126
3	Al Daaz	American, Arabian, Chinese, Desserts, Fast Foo	HSR, HSR	4.4	400
4	Beijing Bites	Chinese, Thai	5th Block, Koramangala	4.1	450
113	Wok Paper Scissors	Pan-Asian, Chinese, Asian	JNC Road, Koramangala	3.9	219
114	Savoury Restaurant	Arabian, Middle Eastern, North Indian, Grill,	Madiwala, BTM	4.1	600
115	Royal Treat	North Indian, Chinese, Seafood, Biryani	5th block Koramangala, Koramangala	4.2	193
116	Thali 99	North Indian	Koramangala, Koramangala	4.3	200
117	Mani's Dum Biryani	Andhra, Biryani	1st Block, Koramangala	4.2	400

117 rows × 5 columns

In [35]:

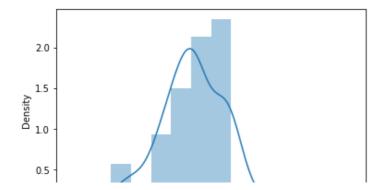
```
#Taking only rows having Rating>0.
sns.distplot(df_Ratings['Rating'])
```

/usr/local/lib/python3.8/dist-packages/seaborn/distributions.py:2619: FutureWarning: `dis tplot` is a deprecated function and will be removed in a future version. Please adapt you r code to use either `displot` (a figure-level function with similar flexibility) or `his tplot` (an axes-level function for histograms).

warnings.warn(msg, FutureWarning)

Out[35]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcbb274b640>



```
0.0 3.50 3.75 4.00 4.25 4.50 4.75 5.00

Rating
```

```
In [36]:
dataset['Rating'].max()
Out[36]:
4.8
In [37]:
#From the distribution plot we can see that More than 50% of Restaurants
#are having rating > 4.0.
#Maximum rating is 4.8
#So we conclude that 50% of restaurants are doing well.
In [38]:
#location column
dataset['Location'].unique()
Out[38]:
array(['Koramangala, Koramangala', 'Sector 5, HSR',
       '6th Block, Koramangala', 'HSR, HSR', '5th Block, Koramangala',
       'Koramangala 4th Block, Koramangala', 'BTM 2nd Stage, BTM',
       'BTM, BTM', '9th Main road, Koramangala', 'outer ring road, BTM',
       '7th Block, Koramangala', '1st MAin, Koramangala',
       'Bommanahalli, BTM', '6th block, Koramangala', 'Sector 4, HSR',
       'BTM 1st stage, BTM', 'Jakkasandra Extn, Koramangala',
       'Marutinagar Main Road, BTM', '1st Block, Koramangala',
       '4th Cross, BTM', 'koramangala, Koramangala', 'BTM 2nd stage, BTM', '3rd main, BTM', 'HSR 1st sector, HSR', 'Sector 7, HSR',
       '3rd Sector, HSR', 'Chocolate Factory Road, BTM',
       '16th Main Road, 2nd Stage, BTM', '1st Stage, BTM',
       'Hosur Main Road, Koramangala',
       '1st Cross Road, 5th Block, Near Jyothi Nivas College, Koramangala',
       'Mico Layout, BTM', '4th Cross, Koramangala',
       '4th Block, Koramangala', 'Intermediate Ring Road, Koramangala',
       '3rd sector, HSR', '8TH BLOCK, Koramangala',
       '4th b cross, Koramangala', 'SG palaya, BTM',
       "Venkatapura Main Rd, Teacher's Colony, Jakkasandra, HSR",
       'KHB Colony, Koramangala', 'Sector 3, HSR',
       'Bannerghatta Road, Jayanagar',
       '80 Feet Peripheral Road, Koramangala', 'Btm, BTM',
       'Near Wipro Park Signal, Koramangala', '16th Main Road, BTM',
       '2nd Stage, BTM', 'Kuvempu Nagar, Stage 2, BTM',
       'Koramangala 1st block, Koramangala',
       '5th Block Kormangala, Koramangala', 'Koramangla, Koramangala',
       '5th block, Koramangala', '9th Main Rd, Sector 6, HSR Layout, HSR',
       'Jay Bheema Nagar, BTM', 'Koramangala 6th block, Koramangala',
       'Maruthi Nagar, BTM', 'Sector 6, HSR',
       'Jakkasandra Village, Koramangala', '4th block, Koramangala',
       'Madiwala Junction, BTM', 'kormangala, Koramangala',
       'JNC Road, Koramangala', 'Madiwala, BTM',
       '5th block Koramangala, Koramangala'], dtype=object)
In [39]:
#no. of unique values.
dataset['Location'].nunique()
Out[39]:
65
In [40]:
```

#Ry observing the dataset we find renetitive words. Koramangala HSR RTM

#All the location names have added prefixes with the above repetitive words.

In [41]:

```
df_Koramangala=dataset[dataset['Location'].str.contains(r'Koramangala')]
df_Koramangala
#Getting rows with location containing string 'Koramangala'
```

Out[41]:

	Shop_Name	Cuisine	Location	Rating	Cost_for_Two_In_₹
0	Kanti Sweets	Sweets	Koramangala, Koramangala	4.3	150
2	Sri Krishna sagar	South Indian, North Indian, Fast Food, Beverag	6th Block, Koramangala	4.1	126
4	Beijing Bites	Chinese, Thai	5th Block, Koramangala	4.1	450
5	Kitchens of Punjab	North Indian	Koramangala 4th Block, Koramangala	4.2	350
9	Yumlane Pizza	Pizzas, Italian, Mexican	9th Main road, Koramangala	3.8	150
112	Kritunga	Andhra, Biryani	5th Block, Koramangala	3.9	500
113	Wok Paper Scissors	Pan-Asian, Chinese, Asian	JNC Road, Koramangala	3.9	219
115	Royal Treat	North Indian, Chinese, Seafood, Biryani	5th block Koramangala, Koramangala	4.2	193
116	Thali 99	North Indian	Koramangala, Koramangala	4.3	200
117	Mani's Dum Biryani	Andhra, Biryani	1st Block, Koramangala	4.2	400

64 rows × 5 columns

In [42]:

```
df_BTM=dataset[dataset['Location'].str.contains(r'BTM')]
df_BTM
#Getting rows with location containing string 'BTM'
```

Out[42]:

	Shop_Name	Cuisine	Location	Rating	Cost_for_Two_In_₹
6	99 VARIETY DOSA AND PAV BHAJI- Malli Mane Food	Fast Food, North Indian, Chinese	BTM 2nd Stage, BTM	4.1	200
7	La Pino'z Pizza	Italian	втм, втм	3.9	500
10	Ambur Star Briyani	Chinese, South Indian, North Indian, Desserts,	outer ring road, BTM	4.1	500
17	Sri Lakshmi Dhaba	North Indian	Bommanahalli, BTM	3.7	200
20	Just Bake - Cakes & confectioners	Desserts, Bakery	BTM 1st stage, BTM	4.3	300
22	Hotel Godavari	North Indian, Chinese, Hyderabadi	Marutinagar Main Road, BTM	4.0	400
25	Swad Punjab da	Indian	втм, втм	4.1	250
27	High N Hungry	Andhra, Biryani, Chinese, Desserts, Fast Food,	4th Cross, BTM	4.1	350
31	Bengali Fun Foods	North Indian	BTM 2nd stage, BTM	4.2	300
33	Oottupura	Kerala, South Indian	втм, втм	4.3	268
35	Hyderabadi Biryani Hub	North Indian, Chinese, Biryani	3rd main, BTM	3.9	450
40	Venu's Donne Biryani	Biryani	Chocolate Factory Road, BTM	4.3	300

42	Swashata	South Indian, Snacks, North Indian, Chli⊓	16tn маіn ноаα, 2nα Sta ge, atin M	Rating	Cost_for_Two_in-250
44	Svadu Pure Ghee Sweets	Desserts, Fast Food, Sweets, Chaat	1st Stage, BTM	4.1	200
45	Sai Abhiruchi	Chinese, South Indian, Andhra, Hyderabadi	втм, втм	3.7	250
49	Balaji's Veg	North Indian, Chinese, South Indian	Mico Layout, BTM	4.1	300
51	Donne Biryani Mandi	Biryani, Andhra, South Indian	втм, втм	4.0	150
60	calicut cafe restaurant	Fast Food, Beverages	втм, втм	4.1	280
65	World of asia	Beverages, Chinese	втм, втм	4.0	250
66	Ghar Ka Khana	North Indian	втм, втм	4.2	220
68	KANNUR FOOD POINT	Kerala, Chinese	SG palaya, BTM	3.9	300
69	KANNOOR RESTAURANT	North Indian, Chinese	втм, втм	4.0	250
70	Fattoush	Arabian, Beverages, Biryani, Chinese, Desserts	втм, втм	3.9	400
76	BIRIYANI TASTE MASTH(BTM)	North Indian, South Indian	Btm, BTM	4.2	300
79	Tandoori Merchant	Andhra, Biryani, Chinese, Desserts, Fast Food,	4th Cross, BTM	4.2	100
80	Chinese Bae	Chinese, Thai	втм, втм	4.5	450
83	Abhiruchi Hotel	Chinese, Hyderabadi, Biryani, Indian, South In	втм, втм	4.0	250
84	Punjabi Swag	Punjabi, North Indian, Chinese, Fast Food, Hea	16th Main Road, BTM	3.7	400
86	Gyaani Da Punjabi Dhaba	North Indian	2nd Stage, BTM	4.0	500
87	Biriyani Bhatti	Biryani, Hyderabadi, Andhra, North Indian, Sou	Kuvempu Nagar, Stage 2, BTM	4.1	350
92	BIRYANI CRAFTS	Indian	втм, втм	4.1	500
104	R.B Food Point	Chinese, North Indian	Jay Bheema Nagar, BTM	3.7	350
106	New Tasty Cafeteria	Andhra, Chettinad, Chinese, Mughlai, North Indian	Maruthi Nagar, BTM	4.0	350
110	Biryani Pot	North Indian, Biryani	Madiwala Junction, BTM	4.0	500
114	Savoury Restaurant	Arabian, Middle Eastern, North Indian, Grill,	Madiwala, BTM	4.1	600

In [43]:

df_HSR=dataset[dataset['Location'].str.contains(r'HSR')]
df_HSR
#Getting rows with location containing string 'HSR'

Out[43]:

	Shop_Name	Cuisine	Location	Rating	Cost_for_Two_In_₹
1	Mumbai Tiffin	North Indian, Home Food, Thalis, Combo	Sector 5, HSR	4.4	400
3	Al Daaz	American, Arabian, Chinese, Desserts, Fast Foo	HSR, HSR	4.4	400
8	Hotel Manu	South Indian, Kerala, Chinese, North Indian	HSR, HSR	4.1	350
19	Shree Khana Khazana	Indian, Rajasthani	Sector 4, HSR	4.1	350
24	New Udupi Grand	Chinese, Jain, North Indian, South Indian	HSR, HSR	4.3	150

36	Binion in Tame	North Indian, Chinese, Giryan i	HSR 1st seq <u>ter</u> a rti sR	Rating	Cost_for_Two_Inf_Q0		
37	Gongura's	North Indian, Chinese, Biryani	Sector 7, HSR	3.8	300		
39	Leon Grill	Turkish, Portuguese, American	3rd Sector, HSR	4.3	300		
41	Cakewala	Desserts	HSR, HSR	4.3	450		
57	Donne Biriyani House	South Indian	3rd sector, HSR	4.0	300		
58	Nanda's	Andhra, Biryani	HSR, HSR	4.0	400		
61	Cake Garden	Desserts, Bakery	HSR, HSR	3.9	250		
71	Nizams Biryani	Biryani, Juices, Kebabs	Venkatapura Main Rd, Teacher's Colony, Jakkasa	3.6	200		
73	Punjabi Rasoi	North Indian	Sector 3, HSR	4.0	800		
98	Mandya Gowdru Donne Biryani	Biryani	HSR, HSR	0.0	350		
99	Dindigul Thalapakatti Biriyani	North Indian	HSR, HSR	4.1	650		
101	Easy Bites	Snacks, American	9th Main Rd, Sector 6, HSR Layout, HSR	3.8	200		
107	Junior Kuppanna	Chettinad, South Indian	Sector 6, HSR	4.0	550		
Tn [44]:						
	nset['Location'].	nunique()					
	44]:						
65	65						
In [45]:							
df_k	df_Koramangala.shape						
Out[Out[45]:						
(64,	5)						

#So we can see Restaurants are divided or located into 3 locations.

#Plotting graphs for different locations.

In [46]:

Out[46]:

(35, 5)

In [47]:

Out[47]:

(18, 5)

In [48]:

64+35+18

Out[48]:

In [49]:

In [50]:

#HSR Area

117

df_HSR.shape

 $df_BTM.shape$

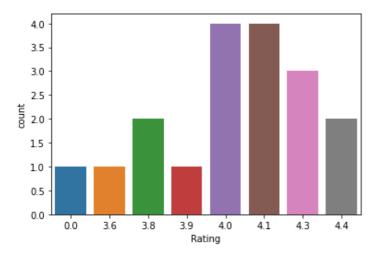
```
sns.countplot(df_HSR['Rating'])
```

/usr/local/lib/python3.8/dist-packages/seaborn/_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

warnings.warn(

Out[50]:

<matplotlib.axes. subplots.AxesSubplot at 0x7fcbb22311f0>

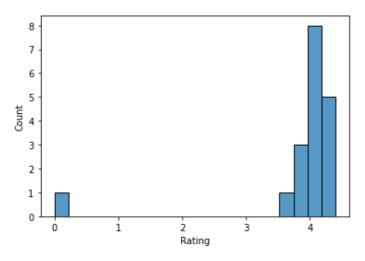


In [51]:

sns.histplot(df_HSR['Rating'],bins=20)

Out[51]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcbb2199700>

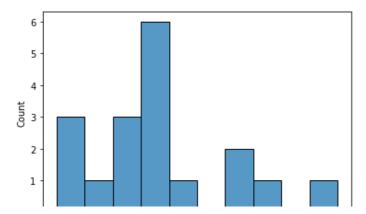


In [52]:

sns.histplot(df_HSR['Cost_for_Two_In_₹'],bins=10)

Out[52]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcbb212ba60>



```
0 200 300 400 500 600 700 800
Cost for Two In ₹
```

In [53]:

#From the histogram and countplots above we find that most places in HSR location #rating of 4 or more. Cost for 2 people lies between 200 to 400. #Maximum cost is nearly upto 800.

In [54]:

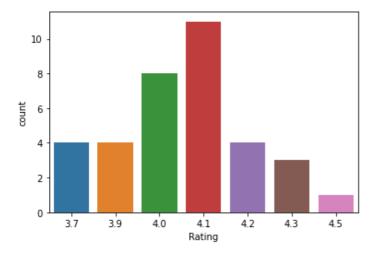
```
#BTM Area
sns.countplot(df BTM['Rating'])
```

/usr/local/lib/python3.8/dist-packages/seaborn/_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

warnings.warn(

Out[54]:

<matplotlib.axes. subplots.AxesSubplot at 0x7fcbb20dfa30>

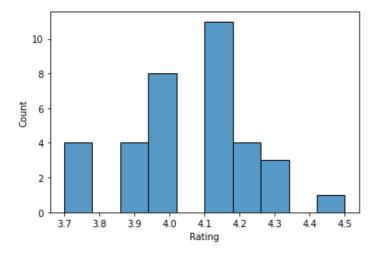


In [55]:

```
sns.histplot(df_BTM['Rating'],bins=10)
```

Out[55]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcbb2081820>

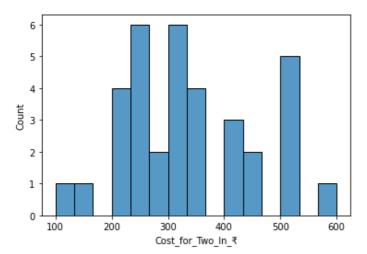


In [56]:

```
sns.histplot(df_BTM['Cost_for_Two_In_₹'],bins=15)
```

Out[56]:

<matplotlib.axes. subplots.AxesSubplot at 0x7fcbb1ffaeb0>



In [57]:

#Most places in the BTM location have rating from 4.0 to 4.2 and approximate cost for #2 people between 200 to 400. #Maximum cost is upto 600.

In [58]:

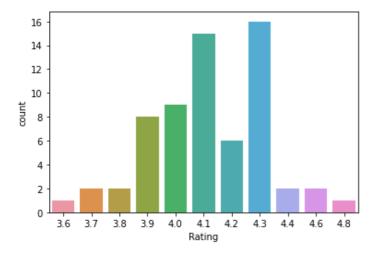
```
#Koramangala Area
sns.countplot(df Koramangala['Rating'])
```

/usr/local/lib/python3.8/dist-packages/seaborn/_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

warnings.warn(

Out[58]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcbb1f76e50>

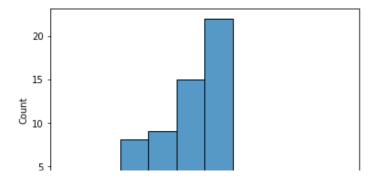


In [59]:

```
sns.histplot(df_Koramangala['Rating'],bins=10)
```

Out[59]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcbb1eef4c0>



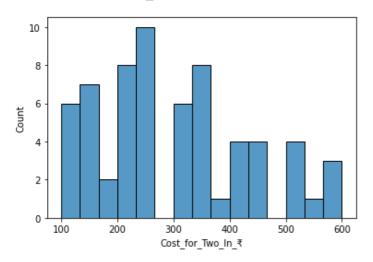


In [60]:

```
sns.histplot(df_Koramangala['Cost_for_Two_In_₹'],bins=15)
```

Out[60]:

<matplotlib.axes._subplots.AxesSubplot at 0x7fcbb1e71640>



In [61]:

#Most places in the Koramangala area have 4.1 to 4.4 rating and cost for 2 people #lies between 200 to 400.
#Maximum cost goes upto 600.

In [62]:

#Most Costly or Expensive location is HSR as maximum cost there is nearly 800.

In [63]:

```
#Cuisine Analysis
dataset['Cuisine']=dataset['Cuisine'].str.title()
dataset['Cuisine']
```

Out[63]:

```
0
                                                   Sweets
1
                  North Indian, Home Food, Thalis, Combo
2
       South Indian, North Indian, Fast Food, Beverag...
       American, Arabian, Chinese, Desserts, Fast Foo...
3
4
                                            Chinese, Thai
113
                                Pan-Asian, Chinese, Asian
114
       Arabian, Middle Eastern, North Indian, Grill, ...
115
                 North Indian, Chinese, Seafood, Biryani
116
                                             North Indian
117
                                          Andhra, Biryani
Name: Cuisine, Length: 118, dtype: object
```

In [64]:

```
dataset.columns
```

Out[64]:

```
Index(['Shop_Name', 'Cuisine', 'Location', 'Rating', 'Cost_for_Two_In_₹'], dtype='object'
)
```

In [65]:

```
dataset['Culsine'].unique() #unique values in Culsine column
Out[65]:
array(['Sweets', 'North Indian, Home Food, Thalis, Combo',
       'South Indian, North Indian, Fast Food, Beverages, Jain',
       'American, Arabian, Chinese, Desserts, Fast Food, Mughlai, North Indian',
       'Chinese, Thai', 'North Indian',
       'Fast Food, North Indian, Chinese', 'Italian',
       'South Indian, Kerala, Chinese, North Indian',
       'Pizzas, Italian, Mexican',
       'Chinese, South Indian, North Indian, Desserts, Fast Food, Kerala, Andhra, Beverag
es, Mughlai, Seafood',
       'Desserts', 'Chinese, Andhra, Biryani, Seafood', 'Chinese',
       'South Indian, Chinese, Desserts, North Indian',
       'Arabian, Fast Food', 'Desserts, Beverages', 'Indian, Rajasthani',
       'Desserts, Bakery', 'Chinese, Healthy Food, North Indian',
       'North Indian, Chinese, Hyderabadi', 'Fast Food',
       'Chinese, Jain, North Indian, South Indian', 'Indian',
       'North Indian, South Indian, Chinese',
       'Andhra, Biryani, Chinese, Desserts, Fast Food, Seafood, South Indian',
       'American, Fast Food',
       'Biryani, Seafood, North Indian, Chinese, Desserts, Andhra, South Indian',
       'Snacks, American', 'South Indian', 'Kerala, South Indian',
       'Mexican', 'North Indian, Chinese, Biryani',
       'Turkish, Portuguese, American', 'Biryani',
       'South Indian, Snacks, North Indian, Chinese',
       'Desserts, Fast Food, Sweets, Chaat',
       'Chinese, South Indian, Andhra, Hyderabadi', 'Pizzas, Fast Food',
       'Biryani, Mughlai, South Indian', 'Chinese, Asian',
       'North Indian, Chinese, South Indian', 'Italian, Desserts, Pizzas',
       'Biryani, Andhra, South Indian',
       'Chinese, Continental, Italian, Mediterranean, Thai, Lebanese, American, Asian, Be
verages, Bakery, Biryani, Cafe, Desserts, Healthy Food, Mexican, North Indian, Salads, Pi
zzas',
       'Pizzas, Chinese, Pastas, Salads, American, Continental',
       'Andhra, Biryani',
       'Chinese, South Indian, North Indian, Fast Food',
       'Fast Food, Beverages',
       'Biryani, South Indian, North Indian, Fast Food, Andhra, Beverages, Mughlai, Seafo
od, Punjabi, Hyderabadi, Chinese',
       'Beverages, Chinese',
       'South Indian, Biryani, Kerala, North Indian, Chinese',
       'Kerala, Chinese', 'North Indian, Chinese',
       'Arabian, Beverages, Biryani, Chinese, Desserts, North Indian',
       'Biryani, Juices, Kebabs', 'Andhra, South Indian',
       'Beverages, Cafe, Snacks', 'North Indian, South Indian',
       'Turkish, Portuguese, American, Grill',
       'Home Food, Healthy Food, Indian', 'Ice Cream',
       'Chinese, Hyderabadi, Biryani, Indian, South Indian, Andhra, Tandoor',
       'Punjabi, North Indian, Chinese, Fast Food, Healthy Food, Mughlai, Desserts',
       'American',
       'Biryani, Hyderabadi, Andhra, North Indian, South Indian',
```

'North Indian, Chaat, Snacks, Fast Food', 'Desserts, Mughlai, Seafood', 'Ice Cream, Desserts', 'Chinese, North Indian', 'Biryani, Kebabs',

'Chettinad, South Indian',

'Continental, Indian, Pan-Asian, Oriental',
'North Indian, Biryani', 'Pan-Asian, Chinese, Asian',

'Fast Food, Juices, North Indian',

'Arabian, Middle Eastern, North Indian, Grill, Seafood, Kerala, Chinese',

'North Indian, Chinese, Seafood, Biryani'], dtype=object)

'Andhra, Chettinad, Chinese, Mughlai, North Indian',

In [66]:

```
frequency={}
for i in dataset['Cuisine'].unique():
    cuisine_list=i.split(',')
    for cuisine in cuisine_list:
        cuisine=cuisine.lstrip(' ')
        if cuisine in frequency:
```

```
frequency[cuisine] = frequency[cuisine] + 1
    else:
      frequency[cuisine]=1
print(frequency)
print()
#counting frequency of unique values in the Cuisine column.
print('TOTAL RECORDS: \t',len(frequency))
{'Sweets': 2, 'North Indian': 32, 'Home Food': 2, 'Thalis': 1, 'Combo': 1, 'South Indian'
: 23, 'Fast Food': 16, 'Beverages': 9, 'Jain': 2, 'American': 8, 'Arabian': 4, 'Chinese':
35, 'Desserts': 15, 'Mughlai': 7, 'Thai': 2, 'Italian': 4, 'Kerala': 6, 'Pizzas': 5, 'Mex
ican': 3, 'Andhra': 12, 'Seafood': 8, 'Biryani': 18, 'Indian': 5, 'Rajasthani': 1, 'Baker
y': 2, 'Healthy Food': 4, 'Hyderabadi': 5, 'Snacks': 4, 'Turkish': 2, 'Portuguese': 2, 'C
haat': 2, 'Asian': 3, 'Continental': 3, 'Mediterranean': 1, 'Lebanese': 1, 'Cafe': 2, 'Sa
lads': 2, 'Pastas': 1, 'Punjabi': 2, 'Juices': 2, 'Kebabs': 2, 'Grill': 2, 'Ice Cream': 2
, 'Tandoor': 1, 'Chettinad': 2, 'Pan-Asian': 2, 'Oriental': 1, 'Middle Eastern': 1}
TOTAL RECORDS:
In [67]:
frequency.items()
#printing dictionary having items and their count.
dict_items([('Sweets', 2), ('North Indian', 32), ('Home Food', 2), ('Thalis', 1), ('Combo
', 1), ('South Indian', 23), ('Fast Food', 16), ('Beverages', 9), ('Jain', 2), ('American
', 8), ('Arabian', 4), ('Chinese', 35), ('Desserts', 15), ('Mughlai', 7), ('Thai', 2), ('
Italian', 4), ('Kerala', 6), ('Pizzas', 5), ('Mexican', 3), ('Andhra', 12), ('Seafood', 8
), ('Biryani', 18), ('Indian', 5), ('Rajasthani', 1), ('Bakery', 2), ('Healthy Food', 4),
('Hyderabadi', 5), ('Snacks', 4), ('Turkish', 2), ('Portuguese', 2), ('Chaat', 2), ('Asia
n', 3), ('Continental', 3), ('Mediterranean', 1), ('Lebanese', 1), ('Cafe', 2), ('Salads'
, 2), ('Pastas', 1), ('Punjabi', 2), ('Juices', 2), ('Kebabs', 2), ('Grill', 2), ('Ice Cr
eam', 2), ('Tandoor', 1), ('Chettinad', 2), ('Pan-Asian', 2), ('Oriental', 1), ('Middle E
astern', 1)])
In [68]:
cuisine keys=frequency.keys()
freq=frequency.values()
In [69]:
df Cuisine Analysis=pd.DataFrame()
In [70]:
df Cuisine Analysis['Cuisine']=cuisine keys
df Cuisine Analysis['Count']=freq
#adding in datafrfame
In [71]:
df Cuisine Analysis
Out[71]:
        Cuisine Count
 0
        Sweets
 1
     North Indian
                  32
 2
     Home Food
                  2
 3
         Thalis
                  1
 4
        Combo
                  1
 5
     South Indian
                  23
 6
                  16
```

Fast Food

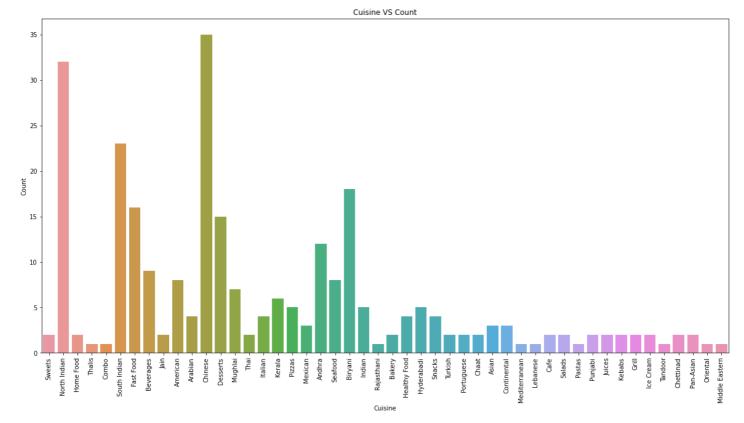
,	Deverages Cuisine	ુ Count
-8	Jain	2
9	American	8
10	Arabian	4
11	Chinese	35
12	Desserts	15
13	Mughlai	7
14	Thai	2
15	Italian	4
16	Kerala	6
17	Pizzas	5
18	Mexican	3
19	Andhra	12
20	Seafood	8
21	Biryani	18
22	Indian	5
23	Rajasthani	1
24	Bakery	2
25	Healthy Food	4
26	Hyderabadi	5
27	Snacks	4
28	Turkish	2
29	Portuguese	2
30	Chaat	2
31	Asian	3
32	Continental	3
33	Mediterranean	1
34	Lebanese	1
35	Cafe	2
36	Salads	2
37	Pastas	1
38	Punjabi	2
39	Juices	2
40	Kebabs	2
41	Grill	2
42	Ice Cream	2
43	Tandoor	1
44	Chettinad	2
45	Pan-Asian	2
46	Oriental	1
47	Middle Fastern	1

In [72]:

47 Middle Eastern

```
plt.figure(figsize=(20,10))
sns.barplot(x=df_Cuisine_Analysis['Cuisine'], y=df_Cuisine_Analysis['Count'], data=df_Cuisi
ne_Analysis)
plt.xticks(rotation=90)
```

```
plt.title('Cuisine VS Count')
plt.xlabel('Cuisine')
plt.ylabel('Count')
plt.show()
```



In [73]:

#So the most famous Cuisine is Chinese followed by North Indian and South Indian.

In [74]:

#Cuisines Location wise Analysis

In [75]:

```
df_BTM['Cuisine'].unique()
```

Out[75]:

```
array(['Fast Food, North Indian, Chinese', 'Italian',
       'Chinese, South Indian, North Indian, Desserts, Fast Food, Kerala, Andhra, Beverag
es, Mughlai, Seafood',
       'North Indian', 'Desserts, Bakery',
       'North Indian, Chinese, Hyderabadi', 'Indian',
       'Andhra, Biryani, Chinese, Desserts, Fast Food, Seafood, South Indian',
       'Kerala, South Indian', 'North Indian, Chinese, Biryani',
       'Biryani', 'South Indian, Snacks, North Indian, Chinese',
       'Desserts, Fast Food, Sweets, Chaat',
       'Chinese, South Indian, Andhra, Hyderabadi',
       'North Indian, Chinese, South Indian',
       'Biryani, Andhra, South Indian', 'Fast Food, Beverages',
       'Beverages, Chinese', 'Kerala, Chinese', 'North Indian, Chinese',
       'Arabian, Beverages, Biryani, Chinese, Desserts, North Indian',
       'North Indian, South Indian', 'Chinese, Thai',
       'Chinese, Hyderabadi, Biryani, Indian, South Indian, Andhra, Tandoor',
       'Punjabi, North Indian, Chinese, Fast Food, Healthy Food, Mughlai, Desserts',
       'Biryani, Hyderabadi, Andhra, North Indian, South Indian',
       'Chinese, North Indian',
       'Andhra, Chettinad, Chinese, Mughlai, North Indian',
       'North Indian, Biryani',
       'Arabian, Middle Eastern, North Indian, Grill, Seafood, Kerala, Chinese'],
     dtype=object)
```

In [76]:

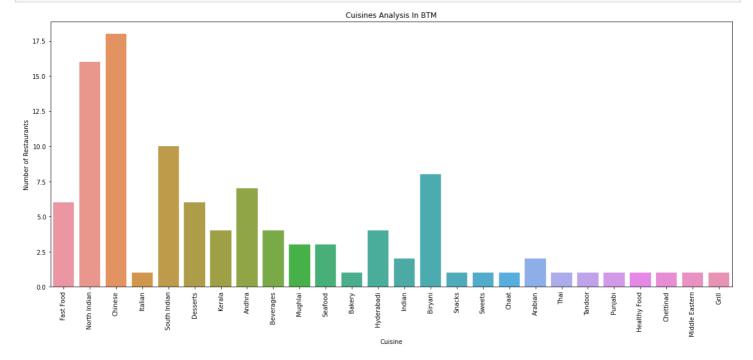
```
freq BTM = {}
for i in df BTM['Cuisine'].unique():
    Cuisine List = i.split(',')
     for Cuisine in Cuisine List:
         Cuisine = Cuisine.lstrip()
         if Cuisine in freq BTM:
              freq BTM[Cuisine] = freq BTM[Cuisine] + 1
         else:
              freq BTM[Cuisine] = 1
print(freq BTM)
print()
print(len(freq BTM))
#COUNTING CUISINES IN BTM LOCATION.
{'Fast Food': 6, 'North Indian': 16, 'Chinese': 18, 'Italian': 1, 'South Indian': 10, 'De sserts': 6, 'Kerala': 4, 'Andhra': 7, 'Beverages': 4, 'Mughlai': 3, 'Seafood': 3, 'Bakery
': 1, 'Hyderabadi': 4, 'Indian': 2, 'Biryani': 8, 'Snacks': 1, 'Sweets': 1, 'Chaat': 1, '
Arabian': 2, 'Thai': 1, 'Tandoor': 1, 'Punjabi': 1, 'Healthy Food': 1, 'Chettinad': 1, 'M
iddle Eastern': 1, 'Grill': 1}
26
In [77]:
freq BTM.items()
Out [77]:
dict_items([('Fast Food', 6), ('North Indian', 16), ('Chinese', 18), ('Italian', 1), ('So
uth Indian', 10), ('Desserts', 6), ('Kerala', 4), ('Andhra', 7), ('Beverages', 4), ('Mugh
lai', 3), ('Seafood', 3), ('Bakery', 1), ('Hyderabadi', 4), ('Indian', 2), ('Biryani', 8)
, ('Snacks', 1), ('Sweets', 1), ('Chaat', 1), ('Arabian', 2), ('Thai', 1), ('Tandoor', 1)
 ('Punjabi', 1), ('Healthy Food', 1), ('Chettinad', 1), ('Middle Eastern', 1), ('Grill',
1)])
In [78]:
Cuisine = freq BTM.keys()
freq = freq BTM.values()
In [79]:
```

Out[79]:

	Cuisine	Count
0	Fast Food	6
1	North Indian	16
2	Chinese	18
3	Italian	1
4	South Indian	10

In [80]:

```
plt.title('Cuisines Analysis In BTM')
plt.xlabel('Cuisine')
plt.ylabel('Number of Restaurants')
plt.show()
```



In [81]:

#IN BTM Area , most restaurants sell Chinese and North Indian which are the most #famous here.
#So most people are fond of the Chinese cuisines.

In [82]:

```
#HSR Area
df_HSR['Cuisine'].unique()
```

Out[82]:

In [83]:

```
freq_HSR = {}
for i in df_HSR['Cuisine'].unique():
    Cuisine_List = i.split(',')
    for Cuisine in Cuisine_List:
        Cuisine = Cuisine.lstrip()
        if Cuisine in freq_HSR:
            freq_HSR[Cuisine] = freq_HSR[Cuisine] + 1
        else:
            freq_HSR[Cuisine] = 1
print(freq_HSR)
print()
print(len(freq_HSR))
```

{'North Indian': 6, 'Home Food': 1, 'Thalis': 1, 'Combo': 1, 'American': 3, 'Arabian': 1, 'Chinese': 4, 'Desserts': 3, 'Fast Food': 1, 'Mughlai': 1, 'South Indian': 4, 'Kerala': 1, 'Indian': 1, 'Rajasthani': 1, 'Jain': 1, 'Biryani': 4, 'Turkish': 1, 'Portuguese': 1, 'Andhra': 1, 'Bakery': 1, 'Juices': 1, 'Kebabs': 1, 'Snacks': 1, 'Chettinad': 1}

```
In [84]:
```

```
freq_HSR.items()
```

Out[84]:

dict_items([('North Indian', 6), ('Home Food', 1), ('Thalis', 1), ('Combo', 1), ('America
n', 3), ('Arabian', 1), ('Chinese', 4), ('Desserts', 3), ('Fast Food', 1), ('Mughlai', 1)
, ('South Indian', 4), ('Kerala', 1), ('Indian', 1), ('Rajasthani', 1), ('Jain', 1), ('Bi
ryani', 4), ('Turkish', 1), ('Portuguese', 1), ('Andhra', 1), ('Bakery', 1), ('Juices', 1
), ('Kebabs', 1), ('Snacks', 1), ('Chettinad', 1)])

In [85]:

```
Cuisine = freq_HSR.keys()
freq = freq_HSR.values()
```

In [86]:

```
dict_HSR = {
    'Cuisine' : Cuisine,
    'Count' : freq
}

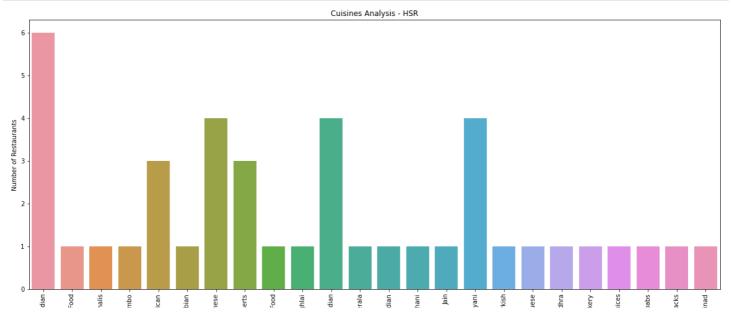
df_Cuisine_HSR = pd.DataFrame(dict_HSR)
df_Cuisine_HSR.head()
```

Out[86]:

Cuisine Count

- North Indian 6
 Home Food 1
 Thalis 1
 Combo 1
- 4 American 3

In [87]:



```
In [88]:
```

```
#In HSR Area , the North Indian food is the most famous/has the most count/found in the #most no. of restaurants.
#So most people are fond of the North Indian cuisines.
```

In [89]:

#Koramangala Area

```
df Koramangala['Cuisine'].unique()
array(['Sweets', 'South Indian, North Indian, Fast Food, Beverages, Jain',
       'Chinese, Thai', 'North Indian', 'Pizzas, Italian, Mexican',
       'Desserts', 'Chinese, Andhra, Biryani, Seafood', 'Chinese',
       'South Indian, Chinese, Desserts, North Indian',
       'Arabian, Fast Food', 'Desserts, Beverages',
       'Chinese, Healthy Food, North Indian', 'Fast Food',
       'North Indian, South Indian, Chinese', 'American, Fast Food',
       'Biryani, Seafood, North Indian, Chinese, Desserts, Andhra, South Indian',
       'Snacks, American', 'South Indian', 'Mexican', 'Pizzas, Fast Food', 'Biryani, Mughlai, South Indian', 'Chinese, Asian',
       'Italian, Desserts, Pizzas',
       'Chinese, Continental, Italian, Mediterranean, Thai, Lebanese, American, Asian, Be
verages, Bakery, Biryani, Cafe, Desserts, Healthy Food, Mexican, North Indian, Salads, Pi
zzas',
       'Biryani',
       'Pizzas, Chinese, Pastas, Salads, American, Continental',
       'Chinese, South Indian, North Indian, Fast Food',
       'Biryani, South Indian, North Indian, Fast Food, Andhra, Beverages, Mughlai, Seafo
od, Punjabi, Hyderabadi, Chinese',
       'South Indian, Biryani, Kerala, North Indian, Chinese',
       'Andhra, South Indian', 'Beverages, Cafe, Snacks',
       'Turkish, Portuguese, American, Grill',
       'Home Food, Healthy Food, Indian', 'Ice Cream', 'American',
       'Fast Food, Juices, North Indian',
       'North Indian, Chaat, Snacks, Fast Food',
       'Desserts, Mughlai, Seafood', 'Ice Cream, Desserts', 'Italian',
       'Biryani, Kebabs', 'Continental, Indian, Pan-Asian, Oriental',
       'North Indian, South Indian', 'Andhra, Biryani',
       'Pan-Asian, Chinese, Asian',
       'North Indian, Chinese, Seafood, Biryani'], dtype=object)
```

In [90]:

```
freq_Koramangala = {}
for i in df_Koramangala['Cuisine'].unique():
    Cuisine_List = i.split(',')
    for Cuisine in Cuisine_List:
        Cuisine = Cuisine.lstrip()
        if Cuisine in freq_Koramangala:
            freq_Koramangala[Cuisine] = freq_Koramangala[Cuisine] + 1
        else:
            freq_Koramangala[Cuisine] = 1
print(freq_Koramangala)
print()
print(len(freq_Koramangala))
```

{'Sweets': 1, 'South Indian': 11, 'North Indian': 14, 'Fast Food': 9, 'Beverages': 5, 'Ja in': 1, 'Chinese': 15, 'Thai': 2, 'Pizzas': 5, 'Italian': 4, 'Mexican': 3, 'Desserts': 8, 'Andhra': 5, 'Biryani': 10, 'Seafood': 5, 'Arabian': 1, 'Healthy Food': 3, 'American': 6, 'Snacks': 3, 'Mughlai': 3, 'Asian': 3, 'Continental': 3, 'Mediterranean': 1, 'Lebanese': 1, 'Bakery': 1, 'Cafe': 2, 'Salads': 2, 'Pastas': 1, 'Punjabi': 1, 'Hyderabadi': 1, 'Kera la': 1, 'Turkish': 1, 'Portuguese': 1, 'Grill': 1, 'Home Food': 1, 'Indian': 2, 'Ice Crea m': 2, 'Juices': 1, 'Chaat': 1, 'Kebabs': 1, 'Pan-Asian': 2, 'Oriental': 1}

In [91]:

```
Cuisine = freq_Koramangala.keys()
freq = freq_Koramangala.values()
```

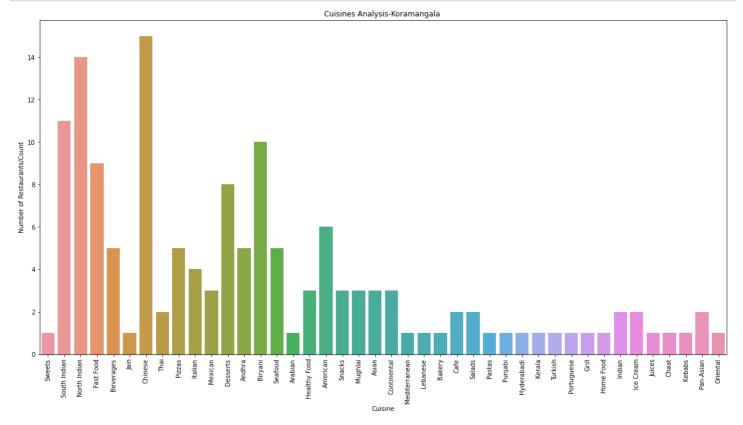
In [92]:

```
dict_Koramangala = {
    'Cuisine': Cuisine,
    'Count': freq
}
df_Cuisine_Koramangala = pd.DataFrame(dict_Koramangala)
df_Cuisine_Koramangala.head()
```

Out[92]:

	Cuisine	Count
0	Sweets	1
1	South Indian	11
2	North Indian	14
3	Fast Food	9
4	Beverages	5

In [93]:



In [94]:

```
#Indian.
#So most people are fond of the Chinese cuisines.
```

In [95]:

```
#Analyzing the affordable and highest Rated resturants.

#Affordable restaurants have cost for 2 <= 500 and rating>=4.

df_affordable = dataset[(dataset['Cost_for_Two_In_₹'] <= 500) & (dataset['Rating'] >= 4.

0)]

df_affordable
```

Out[95]:

	Shop_Name	Cuisine	Location	Rating	Cost_for_Two_In_₹
0	Kanti Sweets	Sweets	Koramangala, Koramangala	4.3	150
1	Mumbai Tiffin	North Indian, Home Food, Thalis, Combo	Sector 5, HSR	4.4	400
2	Sri Krishna sagar	South Indian, North Indian, Fast Food, Beverag	6th Block, Koramangala	4.1	126
3	Al Daaz	American, Arabian, Chinese, Desserts, Fast Foo	HSR, HSR	4.4	400
4	Beijing Bites	Chinese, Thai	5th Block, Koramangala	4.1	450
•••					
110	Biryani Pot	North Indian, Biryani	Madiwala Junction, BTM	4.0	500
111	Bowl 99	North Indian, South Indian	kormangala, Koramangala	4.4	200
115	Royal Treat	North Indian, Chinese, Seafood, Biryani	5th block Koramangala, Koramangala	4.2	193
116	Thali 99	North Indian	Koramangala, Koramangala	4.3	200
117	Mani's Dum Biryani	Andhra, Biryani	1st Block, Koramangala	4.2	400

82 rows × 5 columns

In [96]:

```
df_affordable = df_affordable.groupby(['Shop_Name', 'Rating'])['Cost_for_Two_In_₹'].agg('
mean')
df_affordable = df_affordable.reset_index()
df_affordable
```

Out[96]:

	Shop_Name	Rating	Cost_for_Two_In_₹
0	99 VARIETY DOSA AND JUICE-Malli mane food court	4.1	100.0
1	99 VARIETY DOSA AND PAV BHAJI- Malli Mane Food	4.1	200.0
2	A2B - Adyar Ananda Bhavan	4.2	450.0
3	Abhiruchi Hotel	4.0	250.0
4	Al Daaz	4.4	400.0
•••			•••
76	Venu's Donne Biryani	4.3	300.0
77	WarmOven Cake & Desserts	4.1	200.0
78	World of asia	4.0	250.0
79	XO Belgian Waffle	4.3	250.0
80	calicut cafe restaurant	4.1	280.0

81 rows × 3 columns

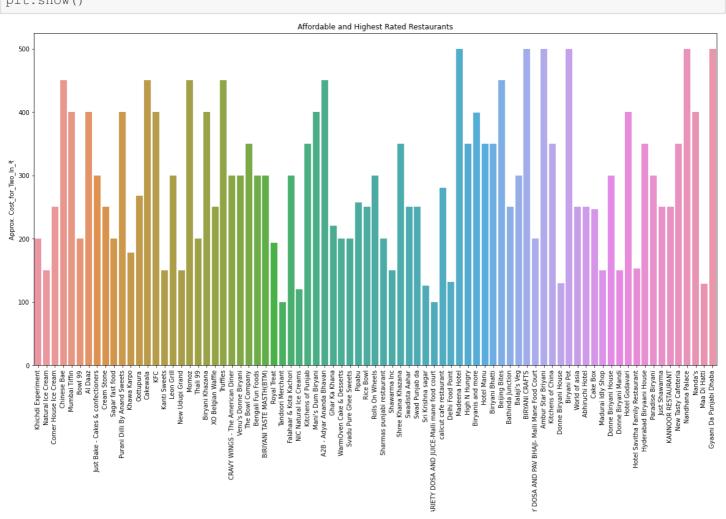
```
df_affordable.sort_values(by = ['Rating'], ascending = False, inplace = True)
df_affordable
```

Out[97]:

	Shop_Name	Rating	Cost_for_Two_In_₹
41	Khichdi Experiment	4.8	200.0
54	Natural Ice Cream	4.6	150.0
21	Corner House Ice Cream	4.6	250.0
20	Chinese Bae	4.5	450.0
50	Mumbai Tiffin	4.4	400.0
55	New Tasty Cafeteria	4.0	350.0
53	Nandhana Palace	4.0	500.0
52	Nanda's	4.0	400.0
45	Maa Di Hatti	4.0	129.0
29	Gyaani Da Punjabi Dhaba	4.0	500.0

81 rows × 3 columns

In [98]:



In [99]:

#So, the most affordable hotels are Madeena Hotel, Biryani Crafts, Ambur Star Biryani #and Biryani Pot etc.

In [100]:

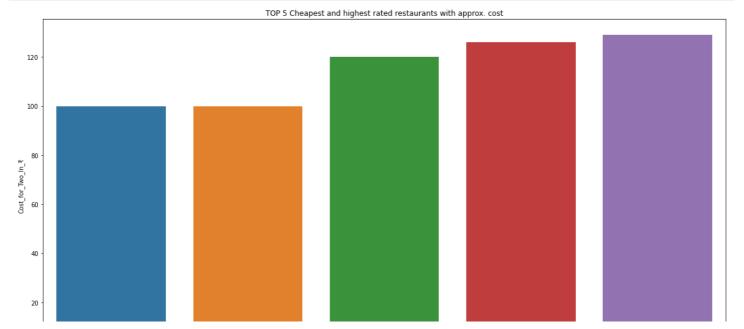
```
#TOP 5 Cheapest and highest rated restaurants with approx. cost for 2 people. df_cheapest=df_affordable.sort_values(by='Cost_for_Two_In_₹',ascending=True) df_cheapest
```

Out[100]:

	Shop_Name	Rating	Cost_for_Two_In_₹
72	Tandoori Merchant	4.2	100.0
0	99 VARIETY DOSA AND JUICE-Malli mane food court	4.1	100.0
51	NIC Natural Ice Creams	4.2	120.0
68	Sri Krishna sagar	4.1	126.0
45	Maa Di Hatti	4.0	129.0
5	Ambur Star Briyani	4.1	500.0
7	BIRYANI CRAFTS	4.1	500.0
53	Nandhana Palace	4.0	500.0
46	Madeena Hotel	4.1	500.0
29	Gyaani Da Punjabi Dhaba	4.0	500.0

81 rows × 3 columns

In [101]:



Bandoori Merchant - Indoori Merc

In [102]:

#The cheapest restaurant is Tandoori Merchant and 99 Variety DOSA AND JUICE-Malli Mane fo od court.

In [103]:

```
#TOP 5 expensive and highest rated restaurants vs cost for 2 people.
df_Highest_Rated_Restaurants = dataset[dataset['Rating'] >= 4.0]
df_Highest_Rated_Restaurants
```

Out[103]:

	Shop_Name	Cuisine	Location	Rating	Cost_for_Two_In_₹
0	Kanti Sweets	Sweets	Koramangala, Koramangala	4.3	150
1	Mumbai Tiffin	North Indian, Home Food, Thalis, Combo	Sector 5, HSR	4.4	400
2	Sri Krishna sagar	South Indian, North Indian, Fast Food, Beverag	6th Block, Koramangala	4.1	126
3	Al Daaz	American, Arabian, Chinese, Desserts, Fast Foo	HSR, HSR	4.4	400
4	Beijing Bites	Chinese, Thai	5th Block, Koramangala	4.1	450
•••					
111	Bowl 99	North Indian, South Indian	kormangala, Koramangala	4.4	200
114	Savoury Restaurant	Arabian, Middle Eastern, North Indian, Grill,	Madiwala, BTM	4.1	600
115	Royal Treat	North Indian, Chinese, Seafood, Biryani	5th block Koramangala, Koramangala	4.2	193
116	Thali 99	North Indian	Koramangala, Koramangala	4.3	200
117	Mani's Dum Biryani	Andhra, Biryani	1st Block, Koramangala	4.2	400

92 rows × 5 columns

In [104]:

```
df_Highest_Rated_Restaurants = df_Highest_Rated_Restaurants.loc[:, ['Shop_Name', 'Rating'
, 'Cost_for_Two_In_₹']]
df_Highest_Rated_Restaurants
```

Out[104]:

	Shop_Name	Rating	Cost_for_Two_In_₹
0	Kanti Sweets	4.3	150
1	Mumbai Tiffin	4.4	400
2	Sri Krishna sagar	4.1	126
3	Al Daaz	4.4	400
4	Beijing Bites	4.1	450

	Shop_Name	Rating	Cost_for_Two_In_₹
111	Bowl 99	4.4	200
114	Savoury Restaurant	4.1	600
115	Royal Treat	4.2	193
116	Thali 99	4.3	200
117	Mani's Dum Biryani	4.2	400

92 rows × 3 columns

In [105]:

```
df_Highest_Rated_Restaurants = df_Highest_Rated_Restaurants.groupby(['Shop_Name', 'Rating
'])['Cost_for_Two_In_₹'].agg('mean')
df_Highest_Rated_Restaurants = df_Highest_Rated_Restaurants.reset_index()
df_Highest_Rated_Restaurants
```

Out[105]:

	Shop_Name	Rating	Cost_for_Two_In_₹
0	99 VARIETY DOSA AND JUICE-Malli mane food court	4.1	100.0
1	99 VARIETY DOSA AND PAV BHAJI- Malli Mane Food	4.1	200.0
2	A2B - Adyar Ananda Bhavan	4.2	450.0
3	Abhiruchi Hotel	4.0	250.0
4	Al Daaz	4.4	400.0
86	Venu's Donne Biryani	4.3	300.0
87	WarmOven Cake & Desserts	4.1	200.0
88	World of asia	4.0	250.0
89	XO Belgian Waffle	4.3	250.0
90	calicut cafe restaurant	4.1	280.0

91 rows × 3 columns

In [106]:

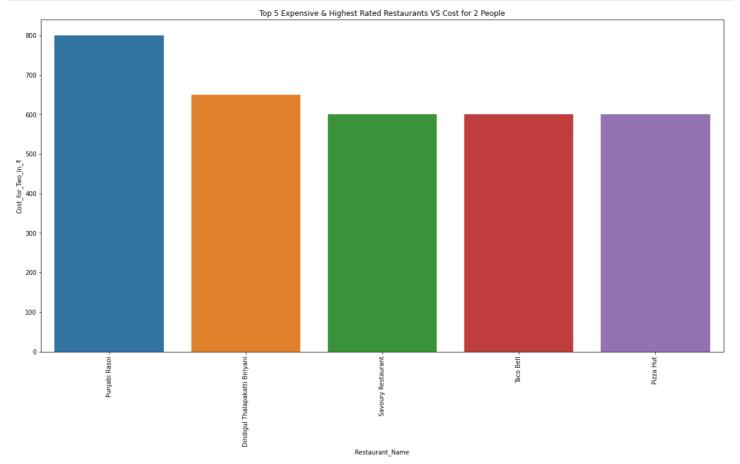
```
df_expensive = df_Highest_Rated_Restaurants.sort_values(by = 'Cost_for_Two_In_₹', ascend
ing = False)
df_expensive
```

Out[106]:

	Shop_Name	Rating	Cost_for_Two_In_₹
67	Punjabi Rasoi	4.0	800.0
26	Dindigul Thalapakatti Biriyani	4.1	650.0
73	Savoury Restaurant	4.1	600.0
81	Taco Bell	4.3	600.0
66	Pizza Hut	4.0	600.0
			•••
49	Maa Di Hatti	4.0	129.0
77	Sri Krishna sagar	4.1	126.0
56	NIC Natural Ice Creams	4.2	120.0
82	Tandoori Merchant	4.2	100.0
0	99 VARIETY DOSA AND JUICE-Malli mane food court	4.1	100.0

91 rows × 3 columns

In [107]:



In [108]:

#Punjab Rasoi restaurant is the most expensive for 2 people.

In [108]: