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/Airbnb data.csv')
```

In [3]:

```
dataset.head()
```

Out[3]:

	room_id	survey_id	host_id	room_type	country	city	borough	neighborhood	reviews	overall_satisfaction	a
0	10176931	1476	49180562	Shared room	NaN	Amsterdam	NaN	De Pijp / Rivierenbuurt	7.0	4.5	
1	8935871	1476	46718394	Shared room	NaN	Amsterdam	NaN	Centrum West	45.0	4.5	
2	14011697	1476	10346595	Shared room	NaN	Amsterdam	NaN	Watergraafsmeer	1.0	0.0	
3	6137978	1476	8685430	Shared room	NaN	Amsterdam	NaN	Centrum West	7.0	5.0	
4	18630616	1476	70191803	Shared room	NaN	Amsterdam	NaN	De Baarsjes / Oud West	1.0	0.0	

In [4]:

```
#no. of missing values
dataset.isnull().sum()
```

Out[4]:

```
room_id                   0
survey_id                 0
host_id                   0
room_type                 0
country                9321
city                      0
borough                9321
neighborhood              0
reviews                   1
overall_satisfaction      1
accommodates              1
bedrooms                  1
bathrooms              9321
price                     1
minstay                9321
name                     20
last_modified             1
latitude                  1
longitude                 1
location                  1
dtype: int64
```

In [5]:

```
dataset.shape
```

Out[5]:

```
(9321, 20)
```

In [6]:

```
#The columns country,borough,bathrooms and minstay are completely null.
#so we drop them.
dataset.drop(columns=['country','borough','bathrooms','minstay'],inplace=True)
```

In [7]:

```
dataset.isnull().sum()
```

Out[7]:

```
room_id                   0
survey_id                 0
host_id                   0
room_type                 0
city                      0
neighborhood              0
reviews                   1
overall_satisfaction      1
accommodates              1
bedrooms                  1
price                     1
name                     20
last_modified             1
latitude                  1
longitude                 1
location                  1
dtype: int64
```

In [8]:

```
#name and other columns have very less null values.
#so we drop the rows corresponding to these null values.
dataset.dropna(inplace=True)
```

In [9]:

```
dataset.isnull().sum()
```

Out[9]:

```
room_id                   0
survey_id                 0
host_id                   0
room_type                 0
city                      0
neighborhood              0
reviews                   0
overall_satisfaction      0
accommodates              0
bedrooms                  0
price                     0
name                      0
last_modified             0
latitude                  0
longitude                 0
location                  0
dtype: int64
```

In [10]:

```
#now there are no missing values in the dataset.
```

In [11]:

```
rooms=dataset['room_type'].value_counts()
```

In [12]:

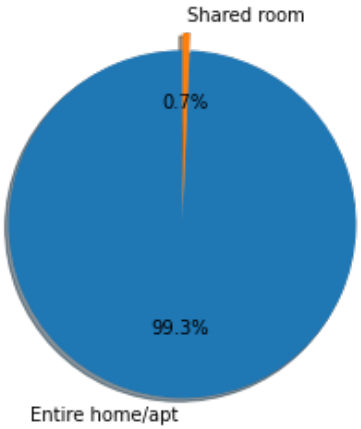
```
rooms
```

Out[12]:

```
Entire home/apt    9238
Shared room          63
Name: room_type, dtype: int64
```

In [13]:

```
labels=['Entire home/apt','Shared room']
rooms_count=dataset['room_type'].value_counts().to_list()
explode=(0.1,0)
#only explode the 1st slice.
fig1,ax1=plt.subplots()
ax1.pie(rooms_count,explode=explode,labels=labels,autopct="%1.1f%%",shadow=True,startang
le=90)
ax1.axis('equal')
#equal aspect ratio ensures pie is drawn as a circle.
plt.show()
```



In [14]:

```
(63/9238)*100
```

Out[14]:

```
0.6819657934617883
```

In [15]:

```
#Shared room is just 0.7 % of all the room types.
#Guests prefer entire home or apartment much more than the shared rooms.
```

In [16]:

```
#finding the neighbourhood which has the most occurence in the dataset.
dataset['neighborhood'].value_counts()
```

Out[16]:

```
De Baarsjes / Oud West                     1696
De Pijp / Rivierenbuurt                    1394
Centrum West                               1302
Centrum Oost                               1020
Noord-West / Noord-Midden                   849
Westerpark                                  645
Oud Oost                                    492
Bos en Lommer                               354
Oostelijk Havengebied / Indische Buurt      314
Watergraafsmeer                             227
```

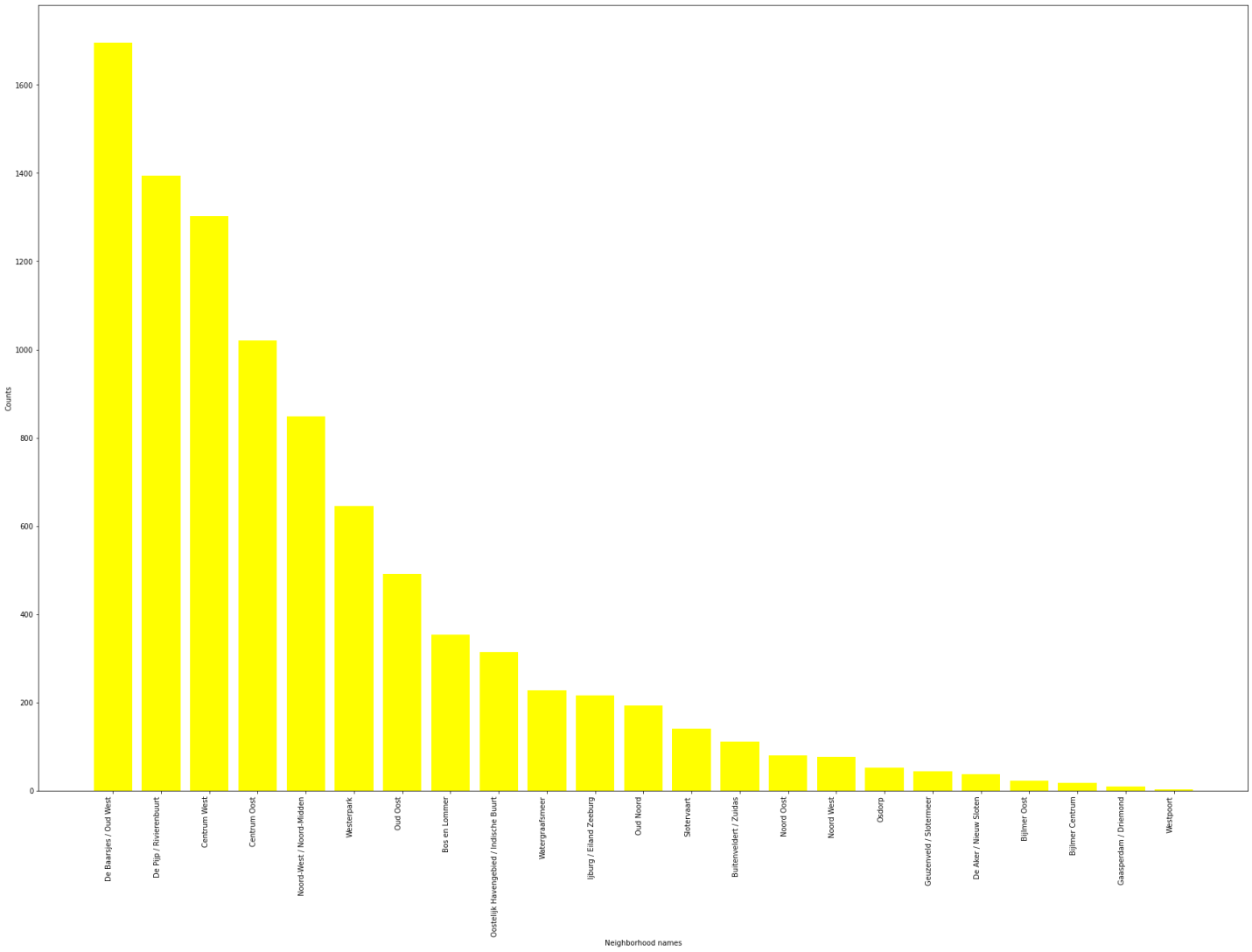
```
Ijburg / Eiland Zeeburg                 216
Oud Noord                               193
Slotervaart                             141
Buitenveldert / Zuidas                  112
Noord Oost                               80
Noord West                               77
Osdorp                                   53
Geuzenveld / Slotermeer                  44
De Aker / Nieuw Sloten                   38
Bijlmer Oost                             23
Bijlmer Centrum                          18
Gaasperdam / Driemond                    10
Westpoort                                 3
Name: neighborhood, dtype: int64
```

In [17]:

```
neighborhood_count=dataset['neighborhood'].value_counts().to_list()
figure=plt.figure(figsize=[30,20])
plt.bar(dataset['neighborhood'].value_counts().index,neighborhood_count,color='yellow')
plt.xticks(rotation=90,ha='right')
plt.xlabel('Neighborhood names')
plt.ylabel('Counts')
```

Out[17]:

```
Text(0, 0.5, 'Counts')
```



In [18]:

```
#From the graph we can see that De Baarsjes / Oud West has the most count or is the
#most popular.
#Westpoort has the least count or the least popularity.
```

In [19]:

```
dataset['reviews'].value_counts()
```

Out[19]:

```
0.0      1654
1.0       753
2.0       646
3.0       576
4.0       481
         ...
151.0       1
232.0       1
112.0       1
136.0       1
109.0       1
Name: reviews, Length: 154, dtype: int64
```

In [20]:

```
reviews_count=pd.Series(dataset['reviews'].value_counts())
pd.set_option("display.max_rows",None,"display.max_columns",None)
print(reviews_count)
```

```
0.0      1654
1.0       753
2.0       646
3.0       576
4.0       481
5.0       452
6.0       388
7.0       365
8.0       309
9.0       284
10.0      242
11.0      239
12.0      205
13.0      174
14.0      171
15.0      157
16.0      151
17.0      130
18.0      127
20.0      111
19.0      108
22.0       90
21.0       88
23.0       80
27.0       72
25.0       70
24.0       70
26.0       67
29.0       62
32.0       58
28.0       56
30.0       47
33.0       46
31.0       44
37.0       36
36.0       34
34.0       34
35.0       32
42.0       26
38.0       26
43.0       25
39.0       23
46.0       23
48.0       22
45.0       22
41.0       21
49.0       19
40.0       16
51.0       16
44.0       16
```

44.0	10
47.0	14
54.0	14
53.0	13
50.0	13
59.0	12
58.0	11
55.0	11
52.0	11
60.0	10
57.0	10
66.0	9
56.0	7
98.0	6
62.0	6
63.0	6
78.0	5
61.0	5
73.0	5
76.0	5
67.0	5
69.0	5
71.0	5
105.0	5
84.0	4
79.0	4
82.0	4
81.0	4
65.0	4
91.0	4
133.0	4
110.0	3
88.0	3
124.0	3
97.0	3
100.0	3
113.0	3
85.0	3
64.0	3
95.0	3
68.0	3
70.0	3
111.0	3
72.0	3
102.0	3
150.0	2
129.0	2
122.0	2
77.0	2
96.0	2
119.0	2
115.0	2
120.0	2
195.0	2
75.0	2
106.0	2
101.0	2
99.0	2
87.0	2
86.0	1
140.0	1
80.0	1
107.0	1
125.0	1
175.0	1
104.0	1
164.0	1
83.0	1
178.0	1
132.0	1
126.0	1
410.0	1
165.0	1

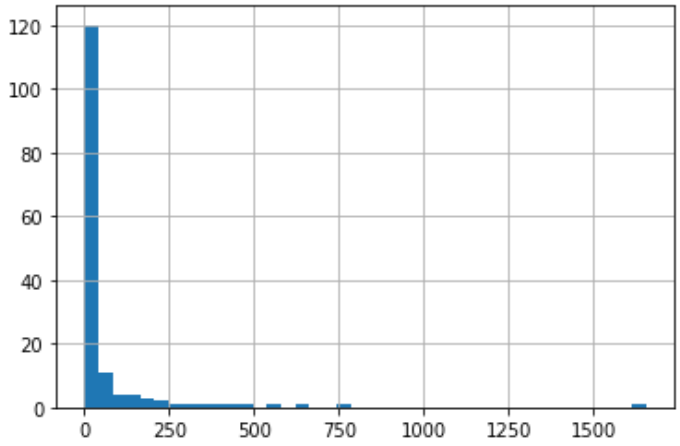
```
254.0       1
278.0       1
128.0       1
354.0       1
369.0       1
117.0       1
147.0       1
90.0        1
228.0       1
138.0       1
167.0       1
92.0        1
184.0       1
162.0       1
284.0       1
190.0       1
447.0       1
135.0       1
144.0       1
121.0       1
108.0       1
114.0       1
116.0       1
149.0       1
127.0       1
153.0       1
103.0       1
151.0       1
232.0       1
112.0       1
136.0       1
109.0       1
Name: reviews, dtype: int64
```

In [21]:

```
#plotting histogram for showing count for each review.
reviews_count.hist(bins=40)
```

Out[21]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x7eff9f06a3d0>
```



In [22]:

```
#from the above data and histogram we find that count of reviews 0 to 20 are
#comparatively higher than other values.
```

In [23]:

```
dataset['overall_satisfaction'].value_counts()
```

Out[23]:

```
5.0    3990
0.0    3056
4.5    1976
```

```
4.5     1976
4.0      228
3.5       41
3.0        8
1.5        1
2.5        1
Name: overall_satisfaction, dtype: int64
```

In [24]:

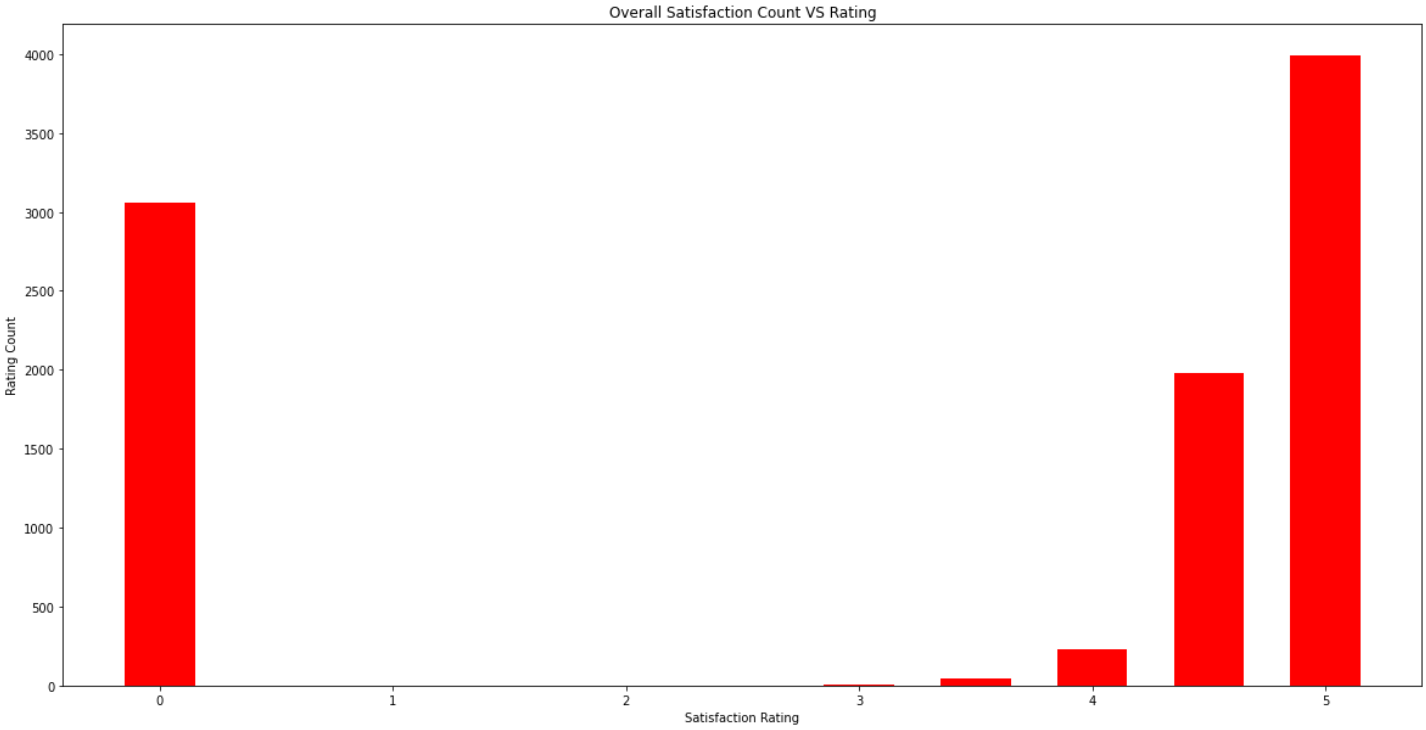
```
#from above we get the overall satisfaction count w.r.to ratings.
```

In [25]:

```
fig=plt.figure(figsize=[20,10])
plt.bar(dataset['overall_satisfaction'].value_counts().index,dataset['overall_satisfacti
on'].value_counts().to_list(),color='red',width=0.3)
plt.xlabel('Satisfaction Rating')
plt.ylabel('Rating Count')
plt.title("Overall Satisfaction Count VS Rating")
```

Out[25]:

```
Text(0.5, 1.0, 'Overall Satisfaction Count VS Rating')
```



In [26]:

```
#from the dataset and graph above we find that Satisfaction rating 5.0 has the
#maximum count i.e. a large community of people are satisfied by the services
#provided by Airbnb.
```

In [27]:

```
#count of accomodation values
accomodation_counts=dataset['accommodates'].value_counts()
accomodation_counts
```

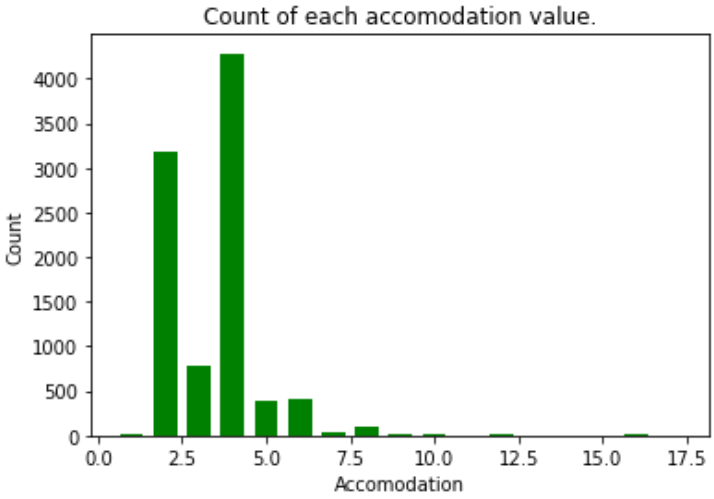
Out[27]:

```
4.0     4285
2.0     3187
3.0      792
6.0      420
5.0      394
8.0       96
7.0       43
1.0       24
16.0      19
```

```
10.0      14
12.0      10
9.0        7
14.0       6
11.0       2
13.0       1
17.0       1
Name: accommodates, dtype: int64
```

In [28]:

```
size=accomodation_counts.to_list()
labels=accomodation_counts.index
plt.bar(labels,size,width=0.7,color='green')
plt.xlabel("Accomodation")
plt.ylabel("Count")
plt.title("Count of each accomodation value.")
plt.show()
```



In [29]:

```
#from above we can see that the most available accomodations are 2 and 4.
```

In [30]:

```
#most properties available.
most_prop_available=dataset['price'].value_counts()
print(most_prop_available)
```

```
180.0     923
150.0     557
240.0     465
156.0     422
300.0     366
168.0     363
144.0     343
210.0     305
179.0     250
192.0     248
162.0     241
216.0     223
270.0     186
132.0     181
174.0     161
155.0     159
204.0     150
167.0     139
359.0     134
234.0     129
198.0     125
264.0     125
239.0     118
228.0     109
186.0      83
420.0      83
```

420.0	85
138.0	83
222.0	76
203.0	70
480.0	70
191.0	69
143.0	67
252.0	65
288.0	63
330.0	63
126.0	60
131.0	58
227.0	54
215.0	47
299.0	42
276.0	41
354.0	41
336.0	37
294.0	34
148.0	31
258.0	29
384.0	27
282.0	26
163.0	25
540.0	24
177.0	24
312.0	24
358.0	24
450.0	24
599.0	23
275.0	21
173.0	21
246.0	21
342.0	21
238.0	20
153.0	20
161.0	19
324.0	19
390.0	19
170.0	18
145.0	18
176.0	17
151.0	17
263.0	17
419.0	16
152.0	16
158.0	16
348.0	16
479.0	15
432.0	14
190.0	14
286.0	14
209.0	13
194.0	13
720.0	13
147.0	12
165.0	12
250.0	12
166.0	12
306.0	12
182.0	11
137.0	11
146.0	11
125.0	11
175.0	11
213.0	11
510.0	11
130.0	11
196.0	11
335.0	10
184.0	10
181.0	10
226.0	9

226.0	9
318.0	9
474.0	9
197.0	9
396.0	9
134.0	9
140.0	9
201.0	9
660.0	9
141.0	8
129.0	8
172.0	8
169.0	8
60.0	8
414.0	8
456.0	8
188.0	8
195.0	8
205.0	8
394.0	8
780.0	7
187.0	7
220.0	7
159.0	7
236.0	7
322.0	7
96.0	7
90.0	7
84.0	7
133.0	7
297.0	7
183.0	6
541.0	6
202.0	6
504.0	6
212.0	6
254.0	6
468.0	6
72.0	6
247.0	6
285.0	6
361.0	6
594.0	5
268.0	5
311.0	5
127.0	5
378.0	5
462.0	5
347.0	5
528.0	5
160.0	5
253.0	5
265.0	5
243.0	5
372.0	4
408.0	4
231.0	4
211.0	4
900.0	4
426.0	4
278.0	4
298.0	4
193.0	4
235.0	4
248.0	4
218.0	4
199.0	4
78.0	4
588.0	4
206.0	4
119.0	4
272.0	4
277.0	4

277.0	4
290.0	4
225.0	4
232.0	4
233.0	4
102.0	4
48.0	4
245.0	4
108.0	4
217.0	4
73.0	3
365.0	3
66.0	3
648.0	3
293.0	3
960.0	3
58.0	3
107.0	3
30.0	3
242.0	3
230.0	3
478.0	3
839.0	3
219.0	3
458.0	3
308.0	3
630.0	3
296.0	3
388.0	3
281.0	3
274.0	3
267.0	3
383.0	3
357.0	3
262.0	3
208.0	3
455.0	2
269.0	2
136.0	2
305.0	2
446.0	2
507.0	2
431.0	2
304.0	2
466.0	2
289.0	2
307.0	2
255.0	2
261.0	2
283.0	2
303.0	2
224.0	2
139.0	2
690.0	2
315.0	2
71.0	2
68.0	2
402.0	2
570.0	2
412.0	2
514.0	2
1079.0	2
341.0	2
1200.0	2
381.0	2
600.0	2
82.0	2
64.0	2
1199.0	2
319.0	2
350.0	2
606.0	2
654.0	2

654.0	2
539.0	2
714.0	2
834.0	2
57.0	2
331.0	2
661.0	2
301.0	2
42.0	2
438.0	2
54.0	2
284.0	1
31.0	1
36.0	1
34.0	1
1386.0	1
25.0	1
18.0	1
260.0	1
1319.0	1
1170.0	1
587.0	1
1050.0	1
1140.0	1
1122.0	1
1343.0	1
45.0	1
1428.0	1
786.0	1
1016.0	1
810.0	1
521.0	1
93.0	1
121.0	1
763.0	1
1134.0	1
112.0	1
200.0	1
149.0	1
124.0	1
113.0	1
118.0	1
114.0	1
87.0	1
103.0	1
95.0	1
98.0	1
91.0	1
409.0	1
67.0	1
249.0	1
75.0	1
1412.0	1
43.0	1
6000.0	1
1799.0	1
721.0	1
3770.0	1
1920.0	1
1558.0	1
1078.0	1
445.0	1
534.0	1
337.0	1
719.0	1
398.0	1
929.0	1
755.0	1
392.0	1
346.0	1
399.0	1
406.0	1
313.0	1

```
315.0       1
410.0       1
407.0       1
373.0       1
403.0       1
448.0       1
413.0       1
762.0       1
473.0       1
612.0       1
749.0       1
310.0       1
367.0       1
737.0       1
366.0       1
355.0       1
351.0       1
482.0       1
449.0       1
585.0       1
435.0       1
339.0       1
451.0       1
371.0       1
894.0       1
756.0       1
320.0       1
356.0       1
659.0       1
256.0       1
369.0       1
708.0       1
567.0       1
467.0       1
334.0       1
241.0       1
328.0       1
135.0       1
110.0       1
63.0        1
77.0        1
416.0       1
400.0       1
457.0       1
443.0       1
503.0       1
349.0       1
427.0       1
492.0       1
488.0       1
502.0       1
332.0       1
444.0       1
512.0       1
417.0       1
475.0       1
344.0       1
439.0       1
Name: price, dtype: int64
```

In [31]:

```
graph={'Price':most_prop_available.index.to_list(),'Properties Available':most_prop_avail
able.to_list()}
most_prop_available_df=pd.DataFrame(graph)
most_prop_available_df
```

Out[31]:

	Price	Properties Available
0	**180.0**	**923**

	Price	Properties Available
1	150.0	517
2	240.0	465
3	156.0	422
4	300.0	366
5	168.0	363
6	144.0	343
7	210.0	305
8	179.0	250
9	192.0	248
10	162.0	241
11	216.0	223
12	270.0	186
13	132.0	181
14	174.0	161
15	155.0	159
16	204.0	150
17	167.0	139
18	359.0	134
19	234.0	129
20	198.0	125
21	264.0	125
22	239.0	118
23	228.0	109
24	186.0	83
25	420.0	83
26	138.0	83
27	222.0	76
28	203.0	70
29	480.0	70
30	191.0	69
31	143.0	67
32	252.0	65
33	288.0	63
34	330.0	63
35	126.0	60
36	131.0	58
37	227.0	54
38	215.0	47
39	299.0	42
40	276.0	41
41	354.0	41
42	336.0	37
43	294.0	34
44	148.0	31
45	258.0	29

	Price	Properties Available
46	384.0	26
47	282.0	26
48	163.0	25
49	540.0	24
50	177.0	24
51	312.0	24
52	358.0	24
53	450.0	24
54	599.0	23
55	275.0	21
56	173.0	21
57	246.0	21
58	342.0	21
59	238.0	20
60	153.0	20
61	161.0	19
62	324.0	19
63	390.0	19
64	170.0	18
65	145.0	18
66	176.0	17
67	151.0	17
68	263.0	17
69	419.0	16
70	152.0	16
71	158.0	16
72	348.0	16
73	479.0	15
74	432.0	14
75	190.0	14
76	286.0	14
77	209.0	13
78	194.0	13
79	720.0	13
80	147.0	12
81	165.0	12
82	250.0	12
83	166.0	12
84	306.0	12
85	182.0	11
86	137.0	11
87	146.0	11
88	125.0	11
89	175.0	11
90	213.0	11

	Price	Properties Available
91	110.0	11
92	130.0	11
93	196.0	11
94	335.0	10
95	184.0	10
96	181.0	10
97	226.0	9
98	318.0	9
99	474.0	9
100	197.0	9
101	396.0	9
102	134.0	9
103	140.0	9
104	201.0	9
105	660.0	9
106	141.0	8
107	129.0	8
108	172.0	8
109	169.0	8
110	60.0	8
111	414.0	8
112	456.0	8
113	188.0	8
114	195.0	8
115	205.0	8
116	394.0	8
117	780.0	7
118	187.0	7
119	220.0	7
120	159.0	7
121	236.0	7
122	322.0	7
123	96.0	7
124	90.0	7
125	84.0	7
126	133.0	7
127	297.0	7
128	183.0	6
129	541.0	6
130	202.0	6
131	504.0	6
132	212.0	6
133	254.0	6
134	468.0	6
135	72.0	6

	Price	Properties Available
136	247.0	6
137	285.0	6
138	361.0	6
139	594.0	5
140	268.0	5
141	311.0	5
142	127.0	5
143	378.0	5
144	462.0	5
145	347.0	5
146	528.0	5
147	160.0	5
148	253.0	5
149	265.0	5
150	243.0	5
151	372.0	4
152	408.0	4
153	231.0	4
154	211.0	4
155	900.0	4
156	426.0	4
157	278.0	4
158	298.0	4
159	193.0	4
160	235.0	4
161	248.0	4
162	218.0	4
163	199.0	4
164	78.0	4
165	588.0	4
166	206.0	4
167	119.0	4
168	272.0	4
169	277.0	4
170	290.0	4
171	225.0	4
172	232.0	4
173	233.0	4
174	102.0	4
175	48.0	4
176	245.0	4
177	108.0	4
178	217.0	4
179	73.0	3
180	365.0	3

	Price	Properties Available
181	66.0	3
182	648.0	3
183	293.0	3
184	960.0	3
185	58.0	3
186	107.0	3
187	30.0	3
188	242.0	3
189	230.0	3
190	478.0	3
191	839.0	3
192	219.0	3
193	458.0	3
194	308.0	3
195	630.0	3
196	296.0	3
197	388.0	3
198	281.0	3
199	274.0	3
200	267.0	3
201	383.0	3
202	357.0	3
203	262.0	3
204	208.0	3
205	455.0	2
206	269.0	2
207	136.0	2
208	305.0	2
209	446.0	2
210	507.0	2
211	431.0	2
212	304.0	2
213	466.0	2
214	289.0	2
215	307.0	2
216	255.0	2
217	261.0	2
218	283.0	2
219	303.0	2
220	224.0	2
221	139.0	2
222	690.0	2
223	315.0	2
224	71.0	2
225	68.0	2

	Price	Properties Available
226	402.0	2
227	570.0	2
228	412.0	2
229	514.0	2
230	1079.0	2
231	341.0	2
232	1200.0	2
233	381.0	2
234	600.0	2
235	82.0	2
236	64.0	2
237	1199.0	2
238	319.0	2
239	350.0	2
240	606.0	2
241	654.0	2
242	539.0	2
243	714.0	2
244	834.0	2
245	57.0	2
246	331.0	2
247	661.0	2
248	301.0	2
249	42.0	2
250	438.0	2
251	54.0	2
252	284.0	1
253	31.0	1
254	36.0	1
255	34.0	1
256	1386.0	1
257	25.0	1
258	18.0	1
259	260.0	1
260	1319.0	1
261	1170.0	1
262	587.0	1
263	1050.0	1
264	1140.0	1
265	1122.0	1
266	1343.0	1
267	45.0	1
268	1428.0	1
269	786.0	1
270	1016.0	1

	Price	Properties Available
271	810.0	1
272	521.0	1
273	93.0	1
274	121.0	1
275	763.0	1
276	1134.0	1
277	112.0	1
278	200.0	1
279	149.0	1
280	124.0	1
281	113.0	1
282	118.0	1
283	114.0	1
284	87.0	1
285	103.0	1
286	95.0	1
287	98.0	1
288	91.0	1
289	409.0	1
290	67.0	1
291	249.0	1
292	75.0	1
293	1412.0	1
294	43.0	1
295	6000.0	1
296	1799.0	1
297	721.0	1
298	3770.0	1
299	1920.0	1
300	1558.0	1
301	1078.0	1
302	445.0	1
303	534.0	1
304	337.0	1
305	719.0	1
306	398.0	1
307	929.0	1
308	755.0	1
309	392.0	1
310	346.0	1
311	399.0	1
312	406.0	1
313	313.0	1
314	410.0	1
315	407.0	1

	Price	Properties Available
316	870.0	1
317	403.0	1
318	448.0	1
319	413.0	1
320	762.0	1
321	473.0	1
322	612.0	1
323	749.0	1
324	310.0	1
325	367.0	1
326	737.0	1
327	366.0	1
328	355.0	1
329	351.0	1
330	482.0	1
331	449.0	1
332	585.0	1
333	435.0	1
334	339.0	1
335	451.0	1
336	371.0	1
337	894.0	1
338	756.0	1
339	320.0	1
340	356.0	1
341	659.0	1
342	256.0	1
343	369.0	1
344	708.0	1
345	567.0	1
346	467.0	1
347	334.0	1
348	241.0	1
349	328.0	1
350	135.0	1
351	110.0	1
352	63.0	1
353	77.0	1
354	416.0	1
355	400.0	1
356	457.0	1
357	443.0	1
358	503.0	1
359	349.0	1
360	427.0	1

	Price	Properties Available
361	492.0	1
362	488.0	1
363	502.0	1
364	332.0	1
365	444.0	1
366	512.0	1
367	417.0	1
368	475.0	1
369	344.0	1
370	439.0	1

In [32]:

```
#from the dataframe above we can conclude that price = 180 has the maximimum properties.
```

In [33]:

```
#info of dataset
dataset.info()
```

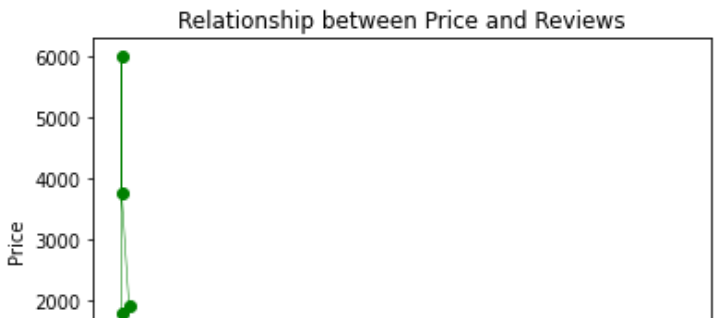
```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 9301 entries, 0 to 9319
Data columns (total 16 columns):
 #   Column                 Non-Null Count  Dtype  
---  ------                 --------------  -----  
 0   room_id                9301 non-null   int64  
 1   survey_id              9301 non-null   int64  
 2   host_id                9301 non-null   int64  
 3   room_type              9301 non-null   object 
 4   city                   9301 non-null   object 
 5   neighborhood           9301 non-null   object 
 6   reviews                9301 non-null   float64
 7   overall_satisfaction   9301 non-null   float64
 8   accommodates           9301 non-null   float64
 9   bedrooms               9301 non-null   float64
 10  price                  9301 non-null   float64
 11  name                   9301 non-null   object 
 12  last_modified          9301 non-null   object 
 13  latitude               9301 non-null   float64
 14  longitude              9301 non-null   float64
 15  location               9301 non-null   object 
dtypes: float64(7), int64(3), object(6)
memory usage: 1.2+ MB
```

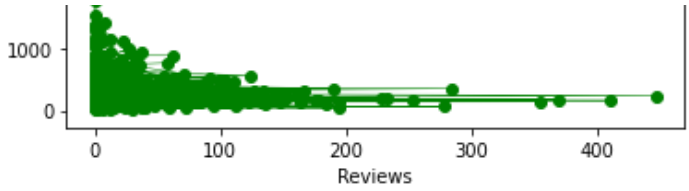
In [34]:

```
#checking relationship between price and reviews.
plt.plot(dataset['reviews'],dataset['price'],marker='o',c='green',linewidth=0.5)
plt.xlabel("Reviews")
plt.ylabel("Price")
plt.title("Relationship between Price and Reviews")
```

Out[34]:

```
Text(0.5, 1.0, 'Relationship between Price and Reviews')
```





In [35]:

```
#finding correlation
from scipy.stats import pearsonr
correlation,_=pearsonr(dataset['reviews'],dataset['price'])
print('Pearson Correlation: %3f'%correlation)
```

```
Pearson Correlation: -0.007678
```

In [36]:

```
#we find negative trend relationship between price and reviews.
#so,if no. of reviews increase then prices will decrease.
```

In [37]:

```
dataset.columns
```

Out[37]:

```
Index(['room_id', 'survey_id', 'host_id', 'room_type', 'city', 'neighborhood',
       'reviews', 'overall_satisfaction', 'accommodates', 'bedrooms', 'price',
       'name', 'last_modified', 'latitude', 'longitude', 'location'],
      dtype='object')
```

In [38]:

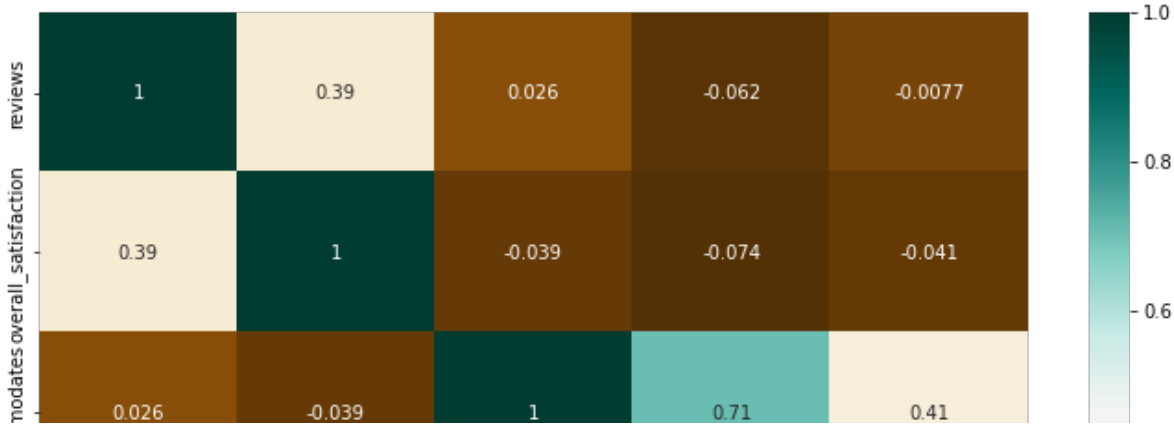
```
df=dataset[['reviews', 'overall_satisfaction', 'accommodates', 'bedrooms', 'price']]
correlation=df.corr()
print(correlation)
```

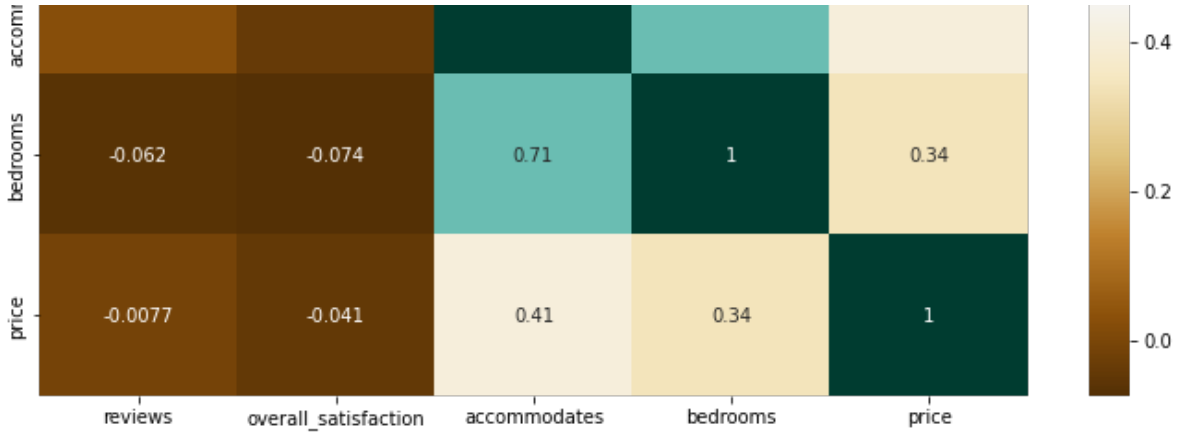
```
                      reviews  overall_satisfaction  accommodates  bedrooms  \
reviews              1.000000              0.389559      0.025589 -0.062028
overall_satisfaction 0.389559              1.000000     -0.039304 -0.074010
accommodates         0.025589             -0.039304      1.000000  0.706613
bedrooms            -0.062028             -0.074010      0.706613  1.000000
price               -0.007678             -0.041487      0.405504  0.343098

                         price
reviews              -0.007678
overall_satisfaction -0.041487
accommodates          0.405504
bedrooms              0.343098
price                 1.000000
```

In [39]:

```
plt.figure(figsize=(12,8))
sns.heatmap(correlation,cmap = 'BrBG', annot = True)
plt.show()
```





In [40]:

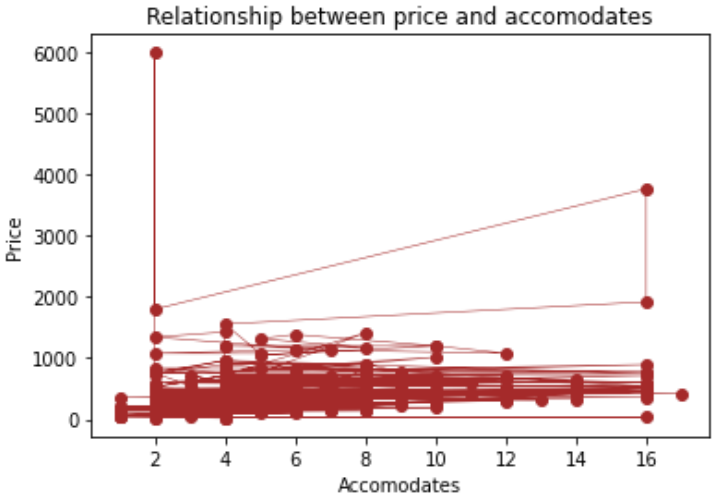
```
#above is a heatmap showing correlation between different attributes of the dataset.
```

In [41]:

```
#checking relationship between price and accomodates.
plt.plot(dataset['accommodates'],dataset['price'],marker='o',c='brown',linewidth=0.5)
plt.xlabel("Accomodates")
plt.ylabel("Price")
plt.title("Relationship between price and accomodates")
```

Out[41]:

```
Text(0.5, 1.0, 'Relationship between price and accomodates')
```



In [42]:

```
#finding correlation by Pearson coefficient.
correlation,_=pearsonr(dataset['accommodates'],dataset['price'])
print('Pearson correlation: %3f' % correlation)
```

```
Pearson correlation: 0.405504
```

In [43]:

```
#from the above graph and correlation value we find that there is slightly positive
#or weak positive correlation or relationship between price and accomodates.
#if no. of accomodates increase then price will also increase.
```

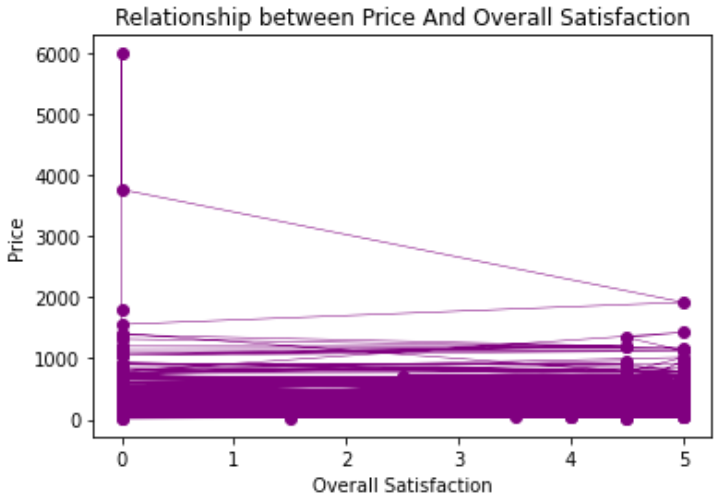
In [44]:

```
#finding relationship between price and Overall Satisfaction
plt.plot(dataset['overall_satisfaction'],dataset['price'],marker='o',c='purple',linewidt
h=0.5)
plt.xlabel("Overall Satisfaction")
plt.ylabel("Price")
plt.title("Relationship between Price And Overall Satisfaction")
```

Out[44]:

Out[44]:

```
Text(0.5, 1.0, 'Relationship between Price And Overall Satisfaction')
```



In [45]:

```
#correlation by Pearson correlation coefficient
correlation,_=pearsonr(dataset['overall_satisfaction'],dataset['price'])
print('Pearson Correlation: %3f' % correlation)
```

```
Pearson Correlation: -0.041487
```

In [46]:

```
#from above graph and correlation value we see that there is negative linear
#relationship between overall_satisfaction and price.
#if overall satisfaction increases then price will decrease.
```

In [47]:

```
dataset['bedrooms']
```

Out[47]:

```
0         1.0
1         1.0
2         1.0
3         1.0
4         1.0
5         1.0
6         1.0
7         1.0
8         1.0
9         1.0
10        1.0
11        1.0
12        1.0
13        1.0
14        1.0
15        1.0
16        1.0
17        1.0
18        1.0
19        1.0
20        1.0
21        1.0
22        1.0
23        1.0
24        1.0
25        1.0
26        1.0
27        1.0
28        1.0
29        1.0
30        1.0
31        1.0
```

31	1.0
32	1.0
33	4.0
34	3.0
35	3.0
36	3.0
37	4.0
38	2.0
39	4.0
40	2.0
41	2.0
42	4.0
43	2.0
44	2.0
45	1.0
46	0.0
47	4.0
48	3.0
49	2.0
50	2.0
51	2.0
52	4.0
53	3.0
54	4.0
55	10.0
56	3.0
57	3.0
58	3.0
59	0.0
60	5.0
61	4.0
62	3.0
63	5.0
64	1.0
65	2.0
66	3.0
67	3.0
68	3.0
69	4.0
70	2.0
71	1.0
72	3.0
73	4.0
74	5.0
75	2.0
76	4.0
77	4.0
78	2.0
79	1.0
80	2.0
81	2.0
82	2.0
83	4.0
84	3.0
85	2.0
86	1.0
87	4.0
88	1.0
89	1.0
90	2.0
91	1.0
92	1.0
93	1.0
94	1.0
95	2.0
96	2.0
97	2.0
98	1.0
99	1.0
100	5.0
101	0.0
102	3.0
103	3.0

103	3.0
104	2.0
105	2.0
106	0.0
107	1.0
108	0.0
109	1.0
110	1.0
111	1.0
112	1.0
113	1.0
114	1.0
115	1.0
116	2.0
117	0.0
118	1.0
119	0.0
120	2.0
121	1.0
122	2.0
123	1.0
124	1.0
125	1.0
126	1.0
127	1.0
128	1.0
129	0.0
130	2.0
131	1.0
132	1.0
133	1.0
134	1.0
135	1.0
136	2.0
137	0.0
138	1.0
139	3.0
140	1.0
141	1.0
142	0.0
143	1.0
144	0.0
145	1.0
146	1.0
147	1.0
148	1.0
149	1.0
150	2.0
152	1.0
153	2.0
154	1.0
155	1.0
156	1.0
157	1.0
158	0.0
159	1.0
160	1.0
161	0.0
162	2.0
163	1.0
164	0.0
165	1.0
166	0.0
167	1.0
168	1.0
169	0.0
170	1.0
171	0.0
172	0.0
173	1.0
174	0.0
175	1.0
176	1.0

176	1.0
177	1.0
178	1.0
179	2.0
180	1.0
181	7.0
182	3.0
183	3.0
184	2.0
185	3.0
186	3.0
187	7.0
188	5.0
189	2.0
190	5.0
191	5.0
192	0.0
193	2.0
194	5.0
195	3.0
196	4.0
197	1.0
198	3.0
199	1.0
200	2.0
201	6.0
202	3.0
203	4.0
204	4.0
205	3.0
206	4.0
207	6.0
208	4.0
209	6.0
210	2.0
211	4.0
212	3.0
213	2.0
214	4.0
215	4.0
216	3.0
217	3.0
218	4.0
219	3.0
220	3.0
221	7.0
222	1.0
223	6.0
224	2.0
225	4.0
226	6.0
227	4.0
228	3.0
229	4.0
230	2.0
231	4.0
232	3.0
233	5.0
234	3.0
235	3.0
236	9.0
237	4.0
238	2.0
239	4.0
240	1.0
242	4.0
243	4.0
244	3.0
245	2.0
246	5.0
247	5.0
248	2.0
249	2.0

249	2.0
250	4.0
251	3.0
252	3.0
253	4.0
254	3.0
255	1.0
256	1.0
257	3.0
258	4.0
259	2.0
260	3.0
261	5.0
262	3.0
263	3.0
264	2.0
265	2.0
266	4.0
267	2.0
268	2.0
269	3.0
270	5.0
271	2.0
272	2.0
273	4.0
274	2.0
275	1.0
276	5.0
277	3.0
278	2.0
279	4.0
280	2.0
281	2.0
282	3.0
283	2.0
284	3.0
285	2.0
286	2.0
287	2.0
288	2.0
289	3.0
290	4.0
291	1.0
292	3.0
293	3.0
294	3.0
295	6.0
296	5.0
297	4.0
298	3.0
299	5.0
300	3.0
301	3.0
302	2.0
303	4.0
304	2.0
305	1.0
306	4.0
307	2.0
308	4.0
309	2.0
310	2.0
311	3.0
312	3.0
313	4.0
314	2.0
315	2.0
316	4.0
317	3.0
318	4.0
319	2.0
320	4.0
321	2.0

321	2.0
322	3.0
323	3.0
324	1.0
325	3.0
326	5.0
327	3.0
328	2.0
329	3.0
330	5.0
331	3.0
332	4.0
333	3.0
334	3.0
335	2.0
336	2.0
337	4.0
338	2.0
339	1.0
340	4.0
341	4.0
342	3.0
343	4.0
344	4.0
345	8.0
346	4.0
347	2.0
348	2.0
349	6.0
350	2.0
351	4.0
352	5.0
353	2.0
354	3.0
356	3.0
357	4.0
358	3.0
359	2.0
360	4.0
361	3.0
362	3.0
363	2.0
364	2.0
365	2.0
366	4.0
367	3.0
368	4.0
369	5.0
370	4.0
371	2.0
372	4.0
373	4.0
374	1.0
375	1.0
376	3.0
377	4.0
378	2.0
379	4.0
380	1.0
381	1.0
382	1.0
383	1.0
384	1.0
385	1.0
386	1.0
387	1.0
388	1.0
389	1.0
390	1.0
391	1.0
392	1.0
393	1.0
394	1.0

394	1.0
395	1.0
396	1.0
397	1.0
398	1.0
399	1.0
400	1.0
401	1.0
402	1.0
403	1.0
404	1.0
405	1.0
406	1.0
407	1.0
408	1.0
409	1.0
410	4.0
411	4.0
412	2.0
413	2.0
414	3.0
415	4.0
416	4.0
417	2.0
418	2.0
419	4.0
420	3.0
421	2.0
422	2.0
423	3.0
424	2.0
425	3.0
426	4.0
427	5.0
428	2.0
429	4.0
430	4.0
431	1.0
432	3.0
433	2.0
434	3.0
435	4.0
436	2.0
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8688	1.0

8689	1.0
8690	1.0
8691	1.0
8692	1.0
8693	2.0
8694	1.0
8695	1.0
8696	1.0
8697	1.0
8698	1.0
8699	1.0
8700	2.0
8701	1.0
8702	1.0
8703	1.0
8704	1.0
8705	1.0
8706	1.0
8707	1.0
8708	2.0
8710	1.0
8711	1.0
8712	1.0
8713	1.0
8714	1.0
8715	1.0
8716	1.0
8717	1.0
8718	1.0
8719	1.0
8720	1.0
8721	2.0
8722	1.0
8723	2.0
8724	1.0
8725	1.0
8726	3.0
8727	1.0
8728	1.0
8729	1.0
8730	3.0
8731	1.0
8732	1.0
8733	3.0
8734	1.0
8735	1.0
8736	1.0
8737	2.0
8738	1.0
8739	1.0
8740	1.0
8741	1.0
8742	1.0
8743	2.0
8744	1.0
8745	1.0
8746	1.0
8747	1.0
8748	2.0
8749	1.0
8750	1.0
8751	2.0
8752	1.0
8753	1.0
8754	0.0
8755	1.0
8756	2.0
8757	1.0
8758	1.0
8759	1.0
8760	2.0
8761	1.0

8761 1.0
8762 1.0
8763 1.0
8764 1.0
8765 1.0
8766 1.0
8767 2.0
8768 1.0
8769 1.0
8770 2.0
8771 1.0
8772 1.0
8773 1.0
8774 1.0
8775 1.0
8776 1.0
8777 2.0
8778 0.0
8779 1.0
8780 1.0
8781 1.0
8782 1.0
8783 1.0
8784 1.0
8785 1.0
8786 1.0
8787 2.0
8788 1.0
8789 2.0
8790 2.0
8791 2.0
8792 1.0
8793 1.0
8794 1.0
8795 1.0
8796 1.0
8797 2.0
8798 1.0
8799 2.0
8800 2.0
8801 1.0
8802 2.0
8803 1.0
8804 1.0
8805 1.0
8806 1.0
8807 1.0
8808 2.0
8809 1.0
8810 1.0
8811 1.0
8812 1.0
8813 1.0
8814 1.0
8815 2.0
8816 1.0
8817 1.0
8818 2.0
8819 1.0
8820 1.0
8821 1.0
8822 2.0
8823 1.0
8824 0.0
8825 1.0
8826 1.0
8827 1.0
8828 1.0
8829 1.0
8830 1.0
8831 1.0
8832 2.0
8833 1.0

8834	2.0
8835	1.0
8836	2.0
8837	2.0
8838	1.0
8839	0.0
8840	1.0
8841	1.0
8842	2.0
8843	1.0
8844	1.0
8845	1.0
8846	0.0
8847	1.0
8848	1.0
8849	1.0
8850	1.0
8851	2.0
8852	1.0
8853	1.0
8854	1.0
8855	3.0
8856	1.0
8857	1.0
8858	1.0
8859	1.0
8860	2.0
8861	1.0
8862	1.0
8863	1.0
8864	1.0
8865	2.0
8866	1.0
8867	1.0
8868	2.0
8869	1.0
8870	1.0
8871	1.0
8872	1.0
8873	2.0
8874	1.0
8875	2.0
8876	1.0
8877	1.0
8878	1.0
8879	1.0
8880	2.0
8881	2.0
8882	1.0
8883	1.0
8884	1.0
8885	1.0
8886	1.0
8887	1.0
8888	1.0
8889	1.0
8890	1.0
8891	2.0
8892	1.0
8893	1.0
8894	0.0
8895	1.0
8896	1.0
8897	1.0
8898	1.0
8899	1.0
8900	2.0
8901	1.0
8902	1.0
8903	2.0
8904	2.0
8905	1.0

8905	1.0
8906	1.0
8907	1.0
8908	2.0
8909	1.0
8910	1.0
8911	1.0
8912	1.0
8913	1.0
8914	1.0
8915	1.0
8916	2.0
8917	1.0
8918	1.0
8919	1.0
8920	1.0
8921	1.0
8922	2.0
8923	1.0
8924	1.0
8925	1.0
8926	2.0
8927	1.0
8928	2.0
8929	1.0
8930	1.0
8931	2.0
8932	0.0
8933	1.0
8934	1.0
8935	1.0
8936	1.0
8937	2.0
8938	3.0
8939	1.0
8940	1.0
8941	1.0
8942	0.0
8943	1.0
8944	2.0
8945	1.0
8946	0.0
8947	2.0
8948	1.0
8949	1.0
8950	1.0
8951	1.0
8952	1.0
8953	1.0
8954	1.0
8955	1.0
8956	1.0
8957	2.0
8958	1.0
8959	2.0
8960	0.0
8961	2.0
8962	1.0
8963	1.0
8964	1.0
8965	1.0
8966	1.0
8967	2.0
8968	1.0
8969	2.0
8970	1.0
8971	1.0
8972	1.0
8973	1.0
8974	2.0
8975	0.0
8976	1.0
8977	1.0

8977	1.0
8978	1.0
8979	1.0
8980	2.0
8981	1.0
8982	1.0
8983	1.0
8984	1.0
8985	1.0
8986	1.0
8987	1.0
8988	2.0
8989	2.0
8990	2.0
8991	1.0
8992	2.0
8993	1.0
8994	1.0
8995	2.0
8996	1.0
8997	1.0
8998	2.0
8999	1.0
9000	1.0
9001	1.0
9002	1.0
9003	1.0
9004	2.0
9005	0.0
9006	1.0
9007	1.0
9008	1.0
9009	2.0
9010	1.0
9011	1.0
9012	1.0
9013	1.0
9014	2.0
9015	1.0
9016	2.0
9017	1.0
9018	1.0
9019	1.0
9020	2.0
9021	2.0
9022	2.0
9023	1.0
9024	1.0
9025	2.0
9026	1.0
9027	2.0
9028	1.0
9029	0.0
9030	2.0
9031	1.0
9032	1.0
9033	1.0
9034	2.0
9035	1.0
9036	3.0
9037	3.0
9038	1.0
9039	1.0
9040	1.0
9041	1.0
9042	1.0
9043	1.0
9044	2.0
9045	1.0
9046	1.0
9047	1.0
9048	2.0
9049	2.0

9049	2.0
9050	2.0
9051	2.0
9052	1.0
9053	1.0
9054	1.0
9055	1.0
9056	1.0
9057	2.0
9058	2.0
9059	1.0
9060	1.0
9061	2.0
9062	2.0
9063	1.0
9064	1.0
9065	2.0
9066	1.0
9067	1.0
9068	1.0
9069	2.0
9070	1.0
9071	1.0
9072	2.0
9073	1.0
9074	1.0
9075	1.0
9076	2.0
9077	2.0
9078	1.0
9079	1.0
9080	2.0
9081	2.0
9082	1.0
9083	1.0
9084	1.0
9085	1.0
9086	1.0
9087	2.0
9088	2.0
9089	1.0
9090	1.0
9091	1.0
9092	2.0
9093	1.0
9094	1.0
9095	2.0
9096	1.0
9097	1.0
9098	2.0
9099	2.0
9100	1.0
9101	1.0
9102	1.0
9103	1.0
9104	1.0
9105	2.0
9106	1.0
9107	2.0
9108	1.0
9109	1.0
9110	1.0
9111	1.0
9112	2.0
9113	1.0
9114	0.0
9115	1.0
9116	2.0
9117	1.0
9118	2.0
9119	1.0
9120	1.0
9121	1.0

9121	1.0
9122	1.0
9123	1.0
9124	3.0
9125	2.0
9126	1.0
9127	1.0
9128	1.0
9129	1.0
9130	1.0
9131	3.0
9132	1.0
9133	1.0
9134	2.0
9135	1.0
9136	2.0
9137	2.0
9138	1.0
9139	2.0
9140	2.0
9141	2.0
9142	1.0
9143	2.0
9144	1.0
9145	2.0
9146	1.0
9147	0.0
9148	0.0
9149	1.0
9150	1.0
9151	1.0
9152	1.0
9153	1.0
9154	1.0
9155	1.0
9156	2.0
9157	2.0
9158	1.0
9159	0.0
9160	1.0
9161	1.0
9162	1.0
9163	1.0
9164	1.0
9165	0.0
9166	1.0
9167	1.0
9168	1.0
9169	1.0
9170	0.0
9171	1.0
9172	1.0
9173	1.0
9174	0.0
9175	1.0
9176	1.0
9177	1.0
9178	1.0
9179	2.0
9181	2.0
9182	2.0
9183	2.0
9184	2.0
9185	0.0
9186	0.0
9187	1.0
9188	1.0
9189	3.0
9190	1.0
9191	1.0
9192	1.0
9193	1.0
9194	1.0

9194	1.0
9195	2.0
9196	2.0
9197	1.0
9198	1.0
9199	2.0
9200	1.0
9201	1.0
9202	1.0
9203	1.0
9204	1.0
9205	2.0
9206	1.0
9207	1.0
9208	1.0
9209	1.0
9210	1.0
9211	1.0
9212	2.0
9213	1.0
9214	1.0
9215	1.0
9216	1.0
9217	1.0
9218	1.0
9219	3.0
9220	1.0
9221	2.0
9222	2.0
9223	2.0
9224	1.0
9225	1.0
9226	1.0
9227	2.0
9228	1.0
9229	1.0
9230	1.0
9231	1.0
9232	2.0
9233	1.0
9234	1.0
9235	1.0
9236	1.0
9237	1.0
9238	1.0
9239	1.0
9240	1.0
9241	2.0
9242	1.0
9243	1.0
9244	1.0
9245	1.0
9246	1.0
9247	1.0
9248	2.0
9249	1.0
9250	1.0
9251	1.0
9252	1.0
9253	2.0
9254	0.0
9255	1.0
9256	0.0
9257	1.0
9258	1.0
9259	1.0
9260	1.0
9261	1.0
9262	1.0
9263	0.0
9264	1.0
9265	1.0
9266	2.0

```
9267     1.0
9268     1.0
9269     1.0
9270     1.0
9271     1.0
9272     2.0
9273     1.0
9274     1.0
9275     1.0
9276     0.0
9277     1.0
9278     1.0
9279     1.0
9280     1.0
9281     1.0
9282     1.0
9283     1.0
9284     2.0
9285     1.0
9286     1.0
9287     1.0
9288     1.0
9289     1.0
9290     1.0
9291     1.0
9292     1.0
9293     1.0
9294     1.0
9295     1.0
9296     1.0
9297     1.0
9298     1.0
9299     0.0
9300     1.0
9301     1.0
9302     1.0
9303     1.0
9304     1.0
9305     2.0
9306     1.0
9307     1.0
9308     1.0
9309     0.0
9310     1.0
9311     1.0
9312     1.0
9313     1.0
9314     1.0
9315     1.0
9316     1.0
9317     1.0
9318     1.0
9319     1.0
Name: bedrooms, dtype: float64
```

In [48]:

```
#share of different bedroom values int total bedroom value.
bedroom_count=dataset['bedrooms'].value_counts()
Totalbedrooms=bedroom_count.sum()
data={'Bedroom_values':bedroom_count.index.to_list(),'Share/Proportion':bedroom_count.to_
list()}
bedroom_count_df=pd.DataFrame(data)
print("Total no. of Bedrooms available : ",Totalbedrooms)
print(dataset.shape)
```

```
Total no. of Bedrooms available :  9301
(9301, 16)
```

In [49]:

```
print("Each bedroom's share : ")
bedroom_count_df
```

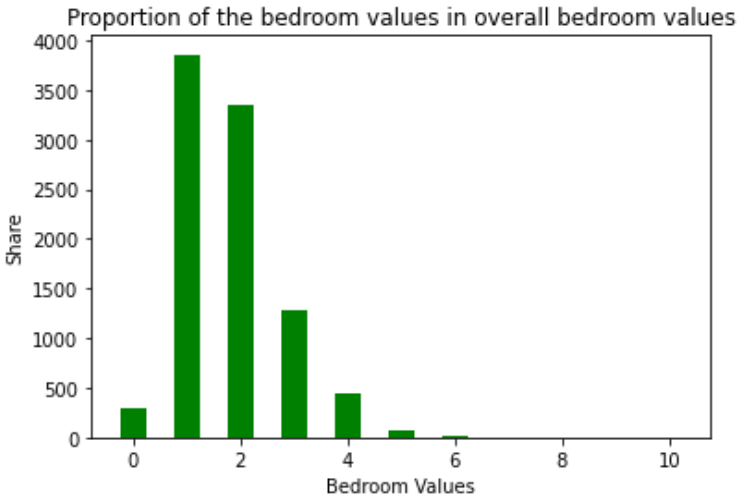
```
Each bedroom's share :
```

Out[49]:

	Bedroom_values	Share/Proportion
0	**1.0**	**3857**
1	**2.0**	**3347**
2	**3.0**	**1273**
3	**4.0**	**435**
4	**0.0**	**296**
5	**5.0**	**62**
6	**6.0**	**18**
7	**10.0**	**5**
8	**7.0**	**3**
9	**8.0**	**3**
10	**9.0**	**2**

In [50]:

```
sizes=bedroom_count.to_list()
labels=bedroom_count.index.to_list()
plt.bar(labels,sizes,width=0.5,color='green')
plt.xlabel("Bedroom Values")
plt.ylabel("Share")
plt.title("Proportion of the bedroom values in overall bedroom values")
plt.show()
```



In [51]:

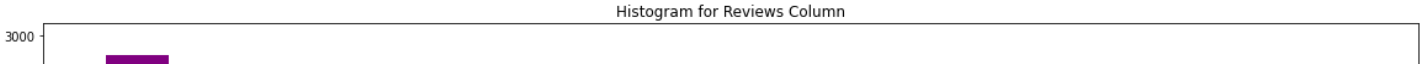
```
#It is clear from graph above that bedroom values 1 and 2 have the most share in overall
bedroom values.
```

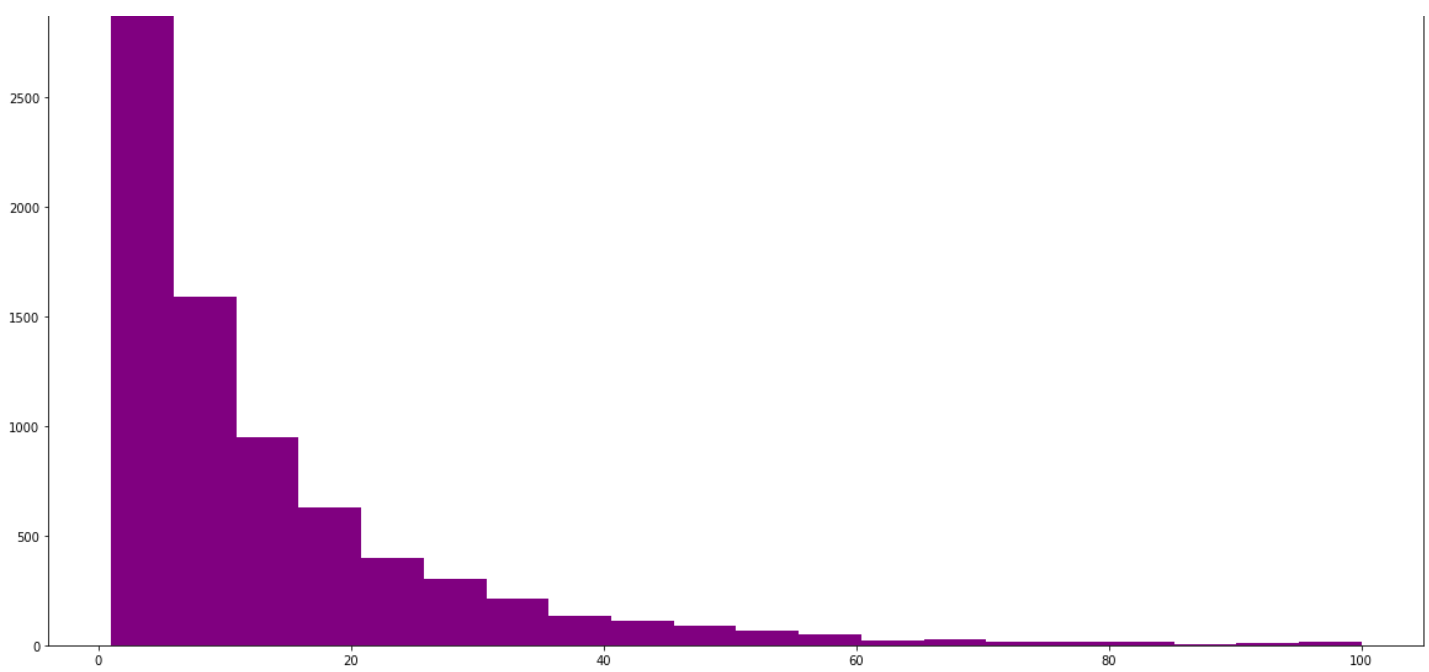
In [52]:

```
#Histogram plot of reviews column.
fig=plt.figure(figsize=[20,10])
plt.hist('reviews',bins=20,range=(1,100),data=dataset,color='purple')
plt.title("Histogram for Reviews Column")
```

Out[52]:

```
Text(0.5, 1.0, 'Histogram for Reviews Column')
```



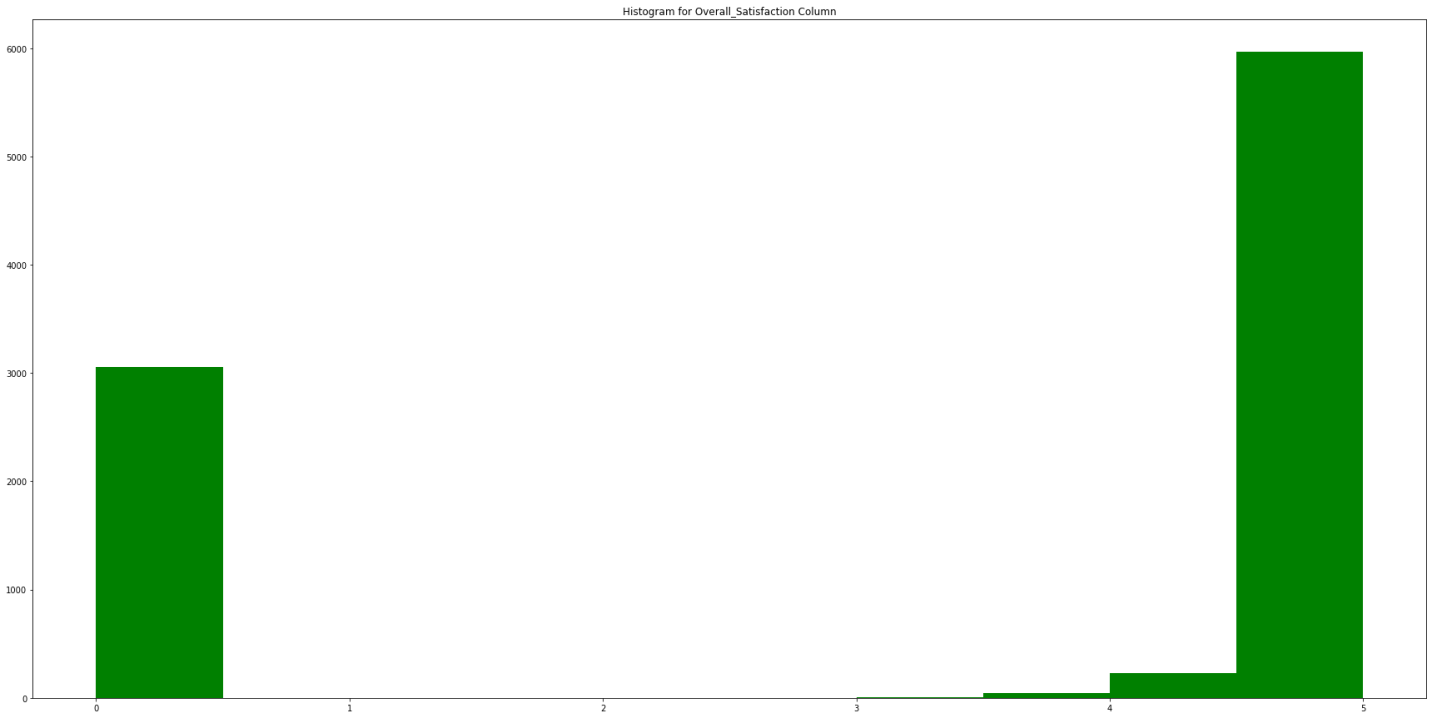


In [53]:

```
#Histogram plot of overall_satisfaction column.
fig=plt.figure(figsize=[30,15])
plt.hist('overall_satisfaction',bins=10,data=dataset,color='green')
plt.title('Histogram for Overall_Satisfaction Column')
```

Out[53]:

```
Text(0.5, 1.0, 'Histogram for Overall_Satisfaction Column')
```



In [53]: