```
#To import the required libraries
import pandas as pd
import seaborn as sns
import numpy as np
# To read The csv file
df = pd.read csv("/content/House Price India.csv")
# display dataframe
df
                     Date number of bedrooms number of bathrooms
                id
0
       6762810145
                    42491
                                               5
                                                                   2.50
1
       6762810635
                    42491
                                               4
                                                                   2.50
2
                                               5
                    42491
       6762810998
                                                                   2.75
3
                                               4
       6762812605
                    42491
                                                                   2.50
4
                                               3
       6762812919
                    42491
                                                                   2.00
                                                                   . . .
14615
       6762830250
                    42734
                                               2
                                                                   1.50
14616
      6762830339
                    42734
                                               3
                                                                   2.00
                                               2
                    42734
                                                                   1.00
14617
       6762830618
                                               4
14618
       6762830709
                    42734
                                                                   1.00
                                               3
14619
      6762831463
                    42734
                                                                   1.00
       living area lot area number of floors waterfront present
0
               3650
                          9050
                                               2.0
                                                                       0
1
               2920
                          4000
                                               1.5
2
                          9480
                                               1.5
                                                                       0
               2910
3
                                                                       0
               3310
                         42998
                                               2.0
4
               2710
                          4500
                                               1.5
                                                                       0
14615
               1556
                         20000
                                               1.0
                                                                       0
14616
               1680
                          7000
                                               1.5
                                                                       0
                                                                       0
14617
               1070
                          6120
                                               1.0
14618
               1030
                          6621
                                               1.0
                                                                       0
                                                                       0
14619
                900
                          4770
                                               1.0
       number of views
                         condition of the house
                                                          Built Year
0
                                                                 1921
1
                       0
                                                 5
                                                                 1909
                                                     . . .
                                                 3
2
                       0
                                                                 1939
3
                                                 3
                       0
                                                                 2001
4
                       0
                                                 4
                                                                 1929
                                                                 . . .
. . .
                     . . .
                                               . . .
                                                                 1957
14615
                       0
                                                 4
                                                     . . .
14616
                       0
                                                 4
                                                                 1968
                       0
                                                 3
14617
                                                                 1962
                      0
                                                 4
14618
                                                                 1955
14619
                       0
                                                                 1969
                                                     . . .
```

		Postal Code	Lattitude	Longitude	
living_area 0	_renov \ 0	122003	52.8645	-114.557	
2880 1	0	122004	52.8878	-114.470	
2470 2	0	122004	52.8852	-114.468	
2940 3	0	122005	52.9532	-114.321	
3350 4	0	122006	52.9047	-114.485	
2060					
14615	0	122066	52.6191	-114.472	
2250 14616	0	122072	52.5075	-114.393	
1540 14617	0	122056	52.7289	-114.507	
1130 14618	0	122042	52.7157	-114.411	
1420 14619	2009	122018	52.5338	-114.552	
000					
900			_		
lot_ airport \		Number of sch		Distance from th	ie
lot_	_area_renov 5400	Number of sch	ools nearby 2	Distance from th	ie
lot_ airport \ 0 58 1		Number of sch		Distance from th	ie
lot_ airport \ 0 58 1 51 2	5400	Number of sch	2	Distance from th	ie
lot_ airport \ 0 58 1 51 2 53	5400 4000	Number of sch	2	Distance from th	ie
lot_ airport \ 0 58 1 51 2 53 3 76 4	5400 4000 6600	Number of sch	2 2 1	Distance from th	ie
lot_ airport \ 0 58 1 51 2 53 3 76	5400 4000 6600 42847	Number of sch	2 2 1 3	Distance from th	ie
lot_ airport \ 0 58 1 51 2 53 3 76 4 51 	5400 4000 6600 42847 4500	Number of sch	2 2 1 3	Distance from th	ie
lot_ airport \ 0 58 1 51 2 53 3 76 4 51 14615 76 14616	5400 4000 6600 42847 4500	Number of sch	2 2 1 3 1	Distance from th	ie
lot_ airport \ 0 58 1 51 2 53 3 76 4 51 14615 76 14616 59 14617	5400 4000 6600 42847 4500 	Number of sch	2 1 3 1	Distance from th	ne
lot_ airport \ 0 58 1 51 2 53 3 76 4 51 14615 76 14616 59	5400 4000 6600 42847 4500 17286 7480	Number of sch	2 1 3 1 3	Distance from th	ne

	Price	
0	2380000	
1	1400000	
2	1200000	
3	838000	
4	805000	
14615	221700	
14616	219200	
14617	209000	
14618	205000	
14619	146000	

[14620 rows x 23 columns]

To display the descriptive statistics of given DataFrame df.describe()

id	Date	number of bedrooms number of	
bathrooms \			
count 1.462000e+04	14620.000000	14620.000000	
14620.000000			
mean 6.762821e+09	42604.538646	3.379343	
2.129583 std 6.237575e+03	67 247001	0 030710	
0.769934	07.347991	0.938719	
min 6.762810e+09	42491 000000	1.000000	
0.500000	424311000000	1.00000	
25% 6.762815e+09	42546.000000 3.000000		
1.750000			
50% 6.762821e+09	42600.000000	3.00000	
2.250000			
75% 6.762826e+09	42662.000000	4.000000	
2.500000			
max 6.762832e+09	42734.000000	33.000000	
8.000000			
living area	lot area	number of floors waterfront	
present \	tot area	number of record water from	
count 14620.000000	1.462000e+04	14620.000000	
14620.000000			
mean 2098.262996	1.509328e+04	1.502360	
0.007661			
std 928.275721	3.791962e+04	0.540239	
0.087193			
min 370.000000	5.200000e+02	1.000000	
0.000000	- 0107F0 00	1 00000	
	5.010750e+03	1.000000	
0.000000	7 620000002	1 500000	
50% 1930.000000	7.0200000+03	1.500000	

```
0.000000
                                              2,000000
75%
        2570.000000
                      1.080000e+04
0.00000
       13540.000000
                      1.074218e+06
                                              3.500000
max
1.000000
                          condition of the house
       number of views
                                                           Built Year
                                                                        \
          14620.000000
                                     14620.000000
                                                         14620.000000
count
                                                    . . .
               0.233105
                                         3.430506
                                                          1970.926402
mean
                                                    . . .
std
               0.766259
                                         0.664151
                                                            29.493625
                                                    . . .
                                         1.000000
                                                          1900.000000
min
               0.000000
                                                    . . .
25%
               0.000000
                                         3.000000
                                                          1951.000000
50%
               0.00000
                                         3.000000
                                                          1975.000000
                                                          1997.000000
75%
               0.000000
                                         4.000000
                                                          2015.000000
               4.000000
                                         5.000000
max
       Renovation Year
                            Postal Code
                                             Lattitude
                                                            Longitude
                           14620.000000
          14620.000000
                                                         14620.000000
                                          14620.000000
count
                          122033.062244
              90.924008
                                             52.792848
                                                          -114.404007
mean
             416.216661
                              19.082418
                                              0.137522
                                                             0.141326
std
               0.000000
                          122003.000000
                                             52.385900
                                                          -114.709000
min
                          122017.000000
                                             52.707600
                                                          -114.519000
25%
               0.00000
50%
               0.000000
                          122032.000000
                                             52.806400
                                                          -114.421000
                                                          -114.315000
75%
               0.000000
                          122048.000000
                                             52.908900
            2015.000000
                          122072.000000
                                             53.007600
                                                          -113.505000
max
                                             Number of schools nearby
       living area renov
                            lot area renov
count
             14620.000000
                              14620.000000
                                                          14620.000000
                              12753.500068
                                                              2.012244
              1996.702257
mean
                              26058.414467
std
               691.093366
                                                              0.817284
               460.000000
                                651.000000
                                                               1.000000
min
25%
              1490.000000
                               5097.750000
                                                               1.000000
50%
              1850,000000
                               7620,000000
                                                              2.000000
75%
              2380,000000
                              10125.000000
                                                              3.000000
max
              6110.000000
                             560617.000000
                                                              3,000000
       Distance from the airport
                                            Price
                     14620.000000
                                    1.462000e+04
count
                                    5.389322e+05
                         64.950958
mean
std
                          8.936008
                                    3.675324e+05
                        50.000000
                                    7.800000e+04
min
                        57.000000
                                    3,200000e+05
25%
50%
                        65.000000
                                    4.500000e+05
75%
                        73.000000
                                    6.450000e+05
                        80,000000
                                    7.700000e+06
max
[8 rows x 23 columns]
```

handling missing values

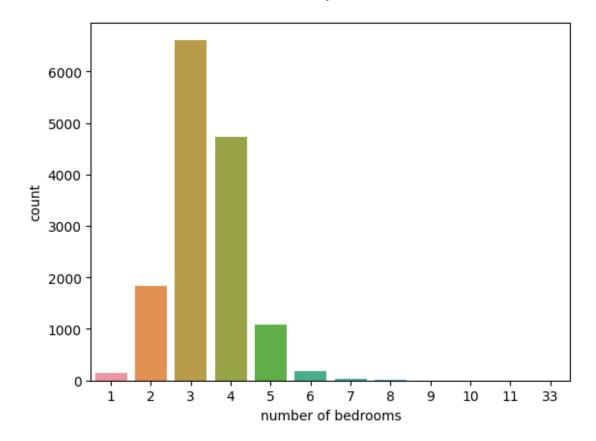
df.isnull().sum()

here it shows that , there is no null values. # so don't need to handle the missing values in given DataFrame

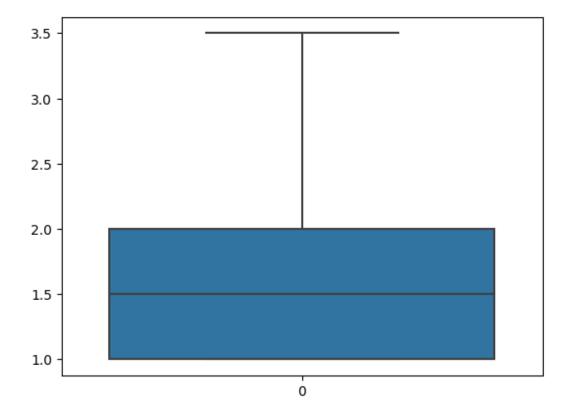
id Date number of bedrooms number of bathrooms living area lot area number of floors waterfront present number of views condition of the house grade of the house Area of the house(excluding basement) Area of the basement Built Year Renovation Year Postal Code Lattitude Longitude living_area_renov lot_area_renov Number of schools nearby Distance from the airport Price dtype: int64	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
<pre>id Date number of bedrooms number of bathrooms living area lot area number of floors waterfront present number of views condition of the house grade of the house Area of the house(excluding basement) Area of the basement Built Year Renovation Year Postal Code Lattitude Longitude</pre>	False False False False False False False False False False False

False False

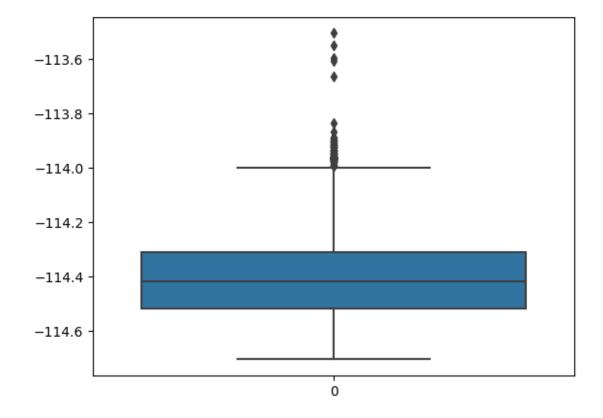
living_area_renov lot_area_renov



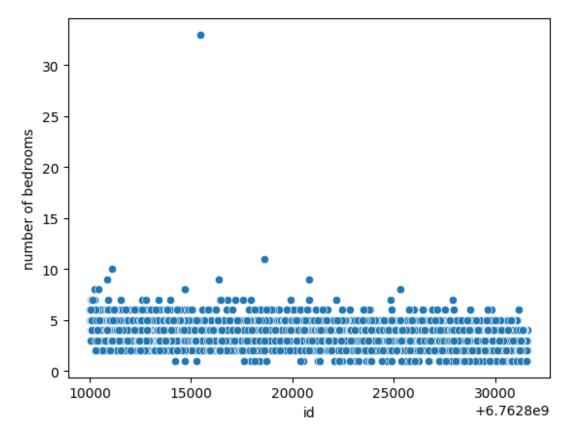
2.)
sns.boxplot(df['number of floors'])
<Axes: >



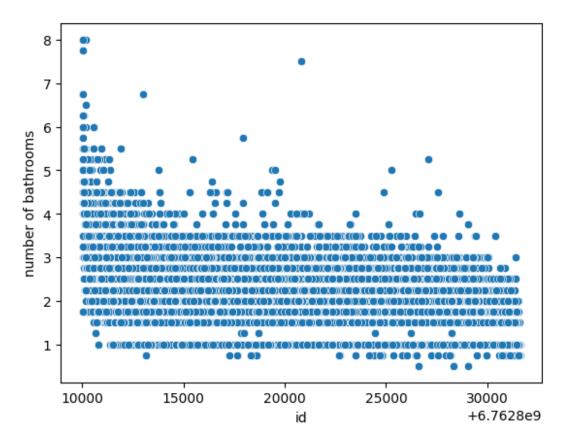
3.)
sns.boxplot(df['Longitude'])
<Axes: >



```
# Bi - Variate Data Visualization
# 1.)
sns.scatterplot(x=df['id'],y=df['number of bedrooms'])
<Axes: xlabel='id', ylabel='number of bedrooms'>
```

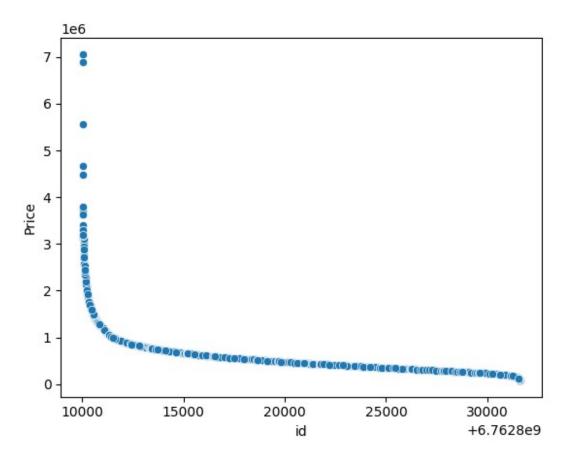


#2.)
sns.scatterplot(x=df['id'],y=df['number of bathrooms'])
<Axes: xlabel='id', ylabel='number of bathrooms'>



3.)
sns.scatterplot(x=df['id'],y=df['Price'])

<Axes: xlabel='id', ylabel='Price'>



Multivariate Data Visualization
sns.heatmap(df.corr())

<Axes: >

