```
import pandas as pd
import numpy as np
```

import matplotlib.pyplot as plt

import seaborn as sns

df = pd.read_csv("/House Price India.csv")
df.head()

	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house	•••	Built Year	Renovation Year	Postal Code	Latt:
0	6762810145	42491	5	2.50	3650	9050	2.0	0	4	5		1921	0	122003	52
1	6762810635	42491	4	2.50	2920	4000	1.5	0	0	5		1909	0	122004	52
2	6762810998	42491	5	2.75	2910	9480	1.5	0	0	3		1939	0	122004	52
3	6762812605	42491	4	2.50	3310	42998	2.0	0	0	3		2001	0	122005	52
4	6762812919	42491	3	2.00	2710	4500	1.5	0	0	4		1929	0	122006	52

5 rows × 23 columns

df.head()

	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house	•••	Built Year	Renovation Year	Postal Code	Latt:
0	6762810145	42491	5	2.50	3650	9050	2.0	0	4	5		1921	0	122003	52
1	6762810635	42491	4	2.50	2920	4000	1.5	0	0	5		1909	0	122004	52
2	6762810998	42491	5	2.75	2910	9480	1.5	0	0	3		1939	0	122004	52
3	6762812605	42491	4	2.50	3310	42998	2.0	0	0	3		2001	0	122005	52
4	6762812919	42491	3	2.00	2710	4500	1.5	0	0	4		1929	0	122006	52

5 rows × 23 columns

df.tail()

		id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house	•••	Built Year	Renovation Year	Postal Code	I
1	14615	6762830250	42734	2	1.5	1556	20000	1.0	0	0	4		1957	0	122066	
1	14616	6762830339	42734	3	2.0	1680	7000	1.5	0	0	4		1968	0	122072	
1	14617	6762830618	42734	2	1.0	1070	6120	1.0	0	0	3		1962	0	122056	
1	14618	6762830709	42734	4	1.0	1030	6621	1.0	0	0	4		1955	0	122042	
1	14619	6762831463	42734	3	1.0	900	4770	1.0	0	0	3		1969	2009	122018	

5 rows × 23 columns

df.shape

(14620, 23)

df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 14620 entries, 0 to 14619
Data columns (total 23 columns):

νατα	columns (total 23 columns):		
#	Column	Non-Null Count	Dtype
0	id	14620 non-null	int64
1	Date	14620 non-null	int64
2	number of bedrooms	14620 non-null	int64
3	number of bathrooms	14620 non-null	float64
4	living area	14620 non-null	int64
5	lot area	14620 non-null	int64

```
number of floors
                                          14620 non-null float64
6
    waterfront present
                                          14620 non-null
                                                         int64
    number of views
                                          14620 non-null int64
8
    condition of the house
                                          14620 non-null
                                                          int64
10
    grade of the house
                                          14620 non-null int64
    Area of the house(excluding basement) 14620 non-null int64
12
    Area of the basement
                                          14620 non-null
                                                          int64
13 Built Year
                                          14620 non-null int64
    Renovation Year
                                          14620 non-null
                                                          int64
14
                                          14620 non-null int64
15
    Postal Code
                                          14620 non-null
                                                          float64
16
    Lattitude
    Longitude
                                          14620 non-null
                                                          float64
17
                                          14620 non-null int64
18 living_area_renov
19 lot_area_renov
                                          14620 non-null int64
    Number of schools nearby
20
                                          14620 non-null
                                                          int64
21 Distance from the airport
                                          14620 non-null int64
22 Price
                                          14620 non-null int64
dtypes: float64(4), int64(19)
memory usage: 2.6 MB
```

df.isnull().any()

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

df.isnull().sum()

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

df.describe()

		id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	
	count	1.462000e+04	14620.000000	14620.000000	14620.000000	14620.000000	1.462000e+04	14620.000000	14620.000000	14620.000000	146
	mean	6.762821e+09	42604.538646	3.379343	2.129583	2098.262996	1.509328e+04	1.502360	0.007661	0.233105	
	std	6.237575e+03	67.347991	0.938719	0.769934	928.275721	3.791962e+04	0.540239	0.087193	0.766259	
	min	6.762810e+09	42491.000000	1.000000	0.500000	370.000000	5.200000e+02	1.000000	0.000000	0.000000	
df.hea	ad()										

	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house	 Built Year	Renovation Year	Postal Code	Latt
0	6762810145	42491	5	2.50	3650	9050	2.0	0	4	5	 1921	0	122003	52
1	6762810635	42491	4	2.50	2920	4000	1.5	0	0	5	 1909	0	122004	52
2	6762810998	42491	5	2.75	2910	9480	1.5	0	0	3	 1939	0	122004	52
3	6762812605	42491	4	2.50	3310	42998	2.0	0	0	3	 2001	0	122005	52
4	6762812919	42491	3	2.00	2710	4500	1.5	0	0	4	 1929	0	122006	52

5 rows × 23 columns

df.living_area_renov.nunique()

665

df.living_area_renov.unique()

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df.living_area_renov.value_counts()
     1440
             136
     1540
             131
     1560
             127
     1500
             122
     1510
             117
     2029
     2634
     1137
     1537
     Name: living_area_renov, Length: 665, dtype: int64
```

```
df.lot_area_renov.value_counts()
     5000
     4000
     6000
               179
     7200
               138
     4800
               102
              ...
     12068
     185565
                 1
     60112
     14564
                 1
     6631
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df.Price.value_counts()
     450000
               114
     350000
               113
     400000
              104
              103
     375000
     550000
               102
     561600
     856500
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plt.pie(df.Price.value_counts())
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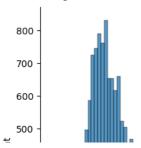
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Text(0.618721745432559, -0.9094962351372807, ''),
Text(0.6195032586765882, -0.908964087568419, ''),
Text(0.6202843142336653, -0.908431268459905, ''),
Text(0.6210649115267488, -0.9078977782053836, '
Text(0.6226247290144636, -0.906828785835378,
Text(0.6234039480567071, -0.9062932845096617, '
Text(0.6241827065301819, -0.9057571136174736,
Text(0.6249610038595439, -0.905220273554935,
Text(0.6257388394697896, -0.9046827647186615, ''),
Text(0.6265162127862569, -0.9041445875057628, ''),
Text(0.6272931232346246, -0.9036057423138424, ''),
Text(0.6280695702409139, -0.9030662295409976, ''
Text(0.6288455532314887, -0.9025260495858185, ''),
Text(0.6296210716330548, -0.9019852028473881,
Text(0.6303961248726622, -0.9014436897252823, Text(0.631170712377704, -0.9009015106195692,
Text(0.6319448335759175, -0.900358665930809, ''),
```

sns.displot(df.living_area_renov)

<seaborn.axisgrid.FacetGrid at 0x7c2ae15bf460>



sns.distplot(df.living_area_renov)

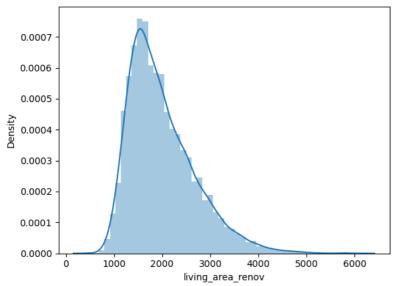
<ipython-input-817-b944eacf0633>:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

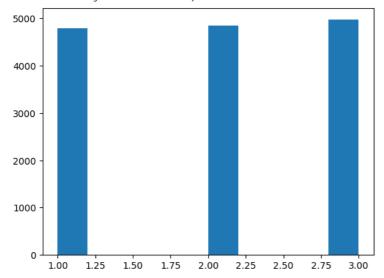
Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

sns.distplot(df.living_area_renov)
<Axes: xlabel='living_area_renov', ylabel='Density'>

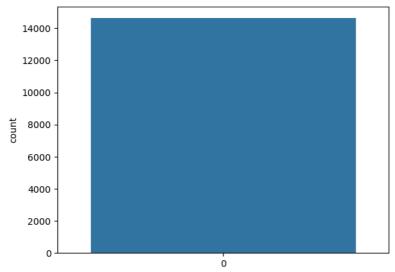


plt.hist(df['Number of schools nearby'])



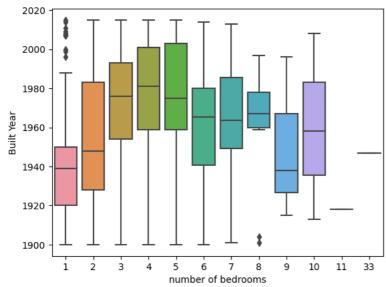
sns.countplot(df['number of bedrooms'])

<Axes: ylabel='count'>



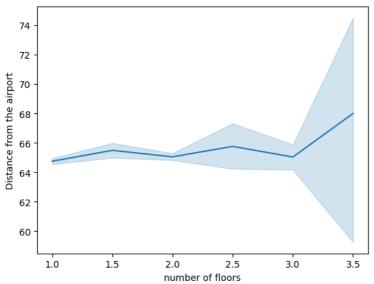
sns.boxplot(x=df['number of bedrooms'],y=df['Built Year'])





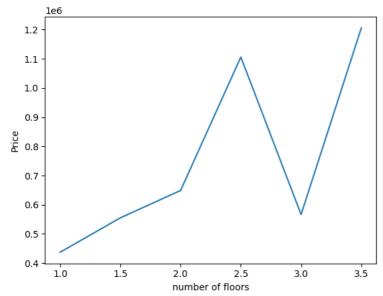
sns.lineplot(x=df['number of floors'],y=df['Distance from the airport'])

<Axes: xlabel='number of floors', ylabel='Distance from the airport'>

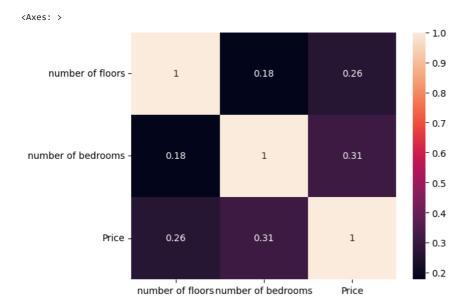


 $sns.lineplot(x=df.groupby('number of floors').mean().index, y=df.groupby('number of floors').mean()['Price'])\\ plt.show$

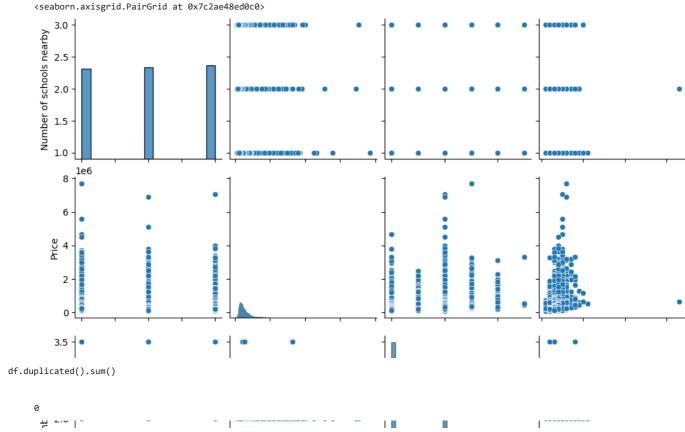
<function matplotlib.pyplot.show(close=None, block=None)>



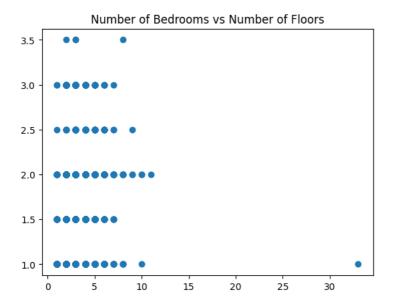
 $\verb|sns.heatmap| (df[['number of floors', 'number of bedrooms', 'Price']].corr(), annot=True)| \\$



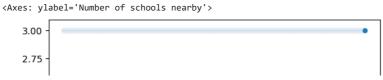
 $\verb|sns.pairplot(df[['Number of schools nearby', 'Price', 'number of floors', 'number of bedrooms']]|)| \\$



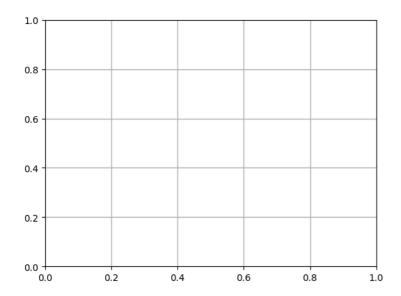
plt.scatter(df['number of bedrooms'],df['number of floors'])
plt.title("Number of Bedrooms vs Number of Floors")
plt.grid(linestyle='-', linewidth=0.)



sns.scatterplot(df['Number of schools nearby'])



plt.grid(linestyle='-',linewidth=1.0)



```
plt.subplots(figsize=(15,15))
sns.heatmap(df.drop(['id'],axis=1).corr(),linewidth=0.3,annot=True)
plt.show()
```

```
1.0
                                Date - 1
                                                             -0.01
                                                                 0.012
                                                                               0.033
                                                                                   0.016
                                                                                        0.016
                                                                                                     0.018
                                                                                                          0.023
                    number of bedrooms
                    number of bathrooms
                                                        0.081
                                                                                                                                                      - 0.8
                            living area -
                                      0.02
                                               0.75
                                                    1
                                                                      0.29
                                                                          0.063
                                                                               0.76 0.88
                                                                                                     -0.08
                                                                                                                   0.76
                                                                                                                       0.18
                                                                                                                                     0.71
                              lot area
                                      .004
                                          0.034
                                                             .00410.026
                                                                     0.078
                                                                          0.008
                                                                                   0.18
                                                                                            0.052
                                                                                                 0.0068
                                                                                                     0.07
                                                                                                          -0.091
                                                                                                                        0.71
                                                                                                                            0.0130.003
                                                                                                                                     0.08
                        number of floors
                                      0.01
                                                             1
                                                                      0.02
                                                                          -0.27
                                                                                        -0.24
                                                                                                                        -0.01
                                                                                                                                                      - 0.6
                      waterfront present -0.012
                                                                          0.019
                        number of views
                                          0.07
                                                        0.078
                                                                       1
                                                                                            0.05
                                                                                                     0.03
                                                                                                          0.004
                                                                                                               -0.08
                                                                                                                            0.00
                   condition of the house -0.02
                                          0.027
                                               -0.13
                                                   0.06
                                                             -0.27
                                                                 0.01
                                                                      0.053
                                                                           1
                                                                               -0.15
                                                                                            -0.38
                                                                                                          0.00
                                                                                                              -0.12
                                                                                                                   -0.1
                                                                                                                        0.004
                      grade of the house -0.033
                                                                 0.08
                                                                          -0.15
                                                                                   0.76
                                                                                                0.015
                                                                                                     -0.15
                                                   0.76
                                                                               1
       Area of the house(excluding basement) -
print(df.describe())
      std
             6.237575e+03
                                67.347991
                                                         0.938719
                                                                                0.769934
      min
             6.762810e+09
                             42491,000000
                                                         1.000000
                                                                                0.500000
     25%
             6.762815e+09
                             42546.000000
                                                         3.000000
                                                                                1.750000
      50%
             6.762821e+09
                             42600.000000
                                                         3.000000
                                                                                2.250000
      75%
             6.762826e+09
                             42662.000000
                                                         4.000000
                                                                                 2.500000
             6.762832e+09
                             42734.000000
                                                        33.000000
                                                                                 8.000000
               living area
                                  lot area
                                            number of floors
                                                                 waterfront present
             14620.000000
                             1.462000e+04
                                                  14620.000000
                                                                        14620.000000
      count
               2098.262996
                             1.509328e+04
                                                                             0.007661
                                                      1.502360
     mean
                                                                             0.087193
      std
                928.275721
                             3.791962e+04
                                                      0.540239
                                                                             0.000000
                370.000000
                             5.200000e+02
                                                      1.000000
     min
                                                                             9.999999
      25%
               1449.999999
                             5.010750e+03
                                                      1.000000
      50%
               1930,000000
                             7,620000e+03
                                                      1,500000
                                                                             0.000000
      75%
               2570.000000
                             1.080000e+04
                                                      2.000000
                                                                             0.000000
             13540.000000
                             1.074218e+06
                                                      3.500000
                                                                             1.000000
      max
             number of views
                                condition of the house
                                                                    Built Year
                 14620.000000
                                            14620.000000
                                                                 14620.000000
     count
                                                            . . .
                     0.233105
                                                 3.430506
                                                                   1970.926402
     mean
                                                            . . .
                     0.766259
                                                0.664151
                                                                     29,493625
     std
                                                1.000000
                     0.000000
                                                                   1900.000000
     min
      25%
                     0.000000
                                                 3,000000
                                                                   1951,000000
      50%
                     0.000000
                                                3.000000
                                                                   1975.000000
     75%
                     0.000000
                                                4.000000
                                                                   1997.000000
                     4.000000
                                                 5.000000
                                                                   2015.000000
      max
             Renovation Year
                                   Postal Code
                                                                     Longitude
                                                     Lattitude
                                  14620.000000
                                                 14620.000000
      count
                 14620.000000
                                                                  14620.000000
                    90.924008
                                122033.062244
                                                     52.792848
                                                                   -114.404007
     mean
                                                      0.137522
     std
                   416.216661
                                     19.082418
                                                                      0.141326
                     0.000000
                                 122003,000000
                                                     52,385900
                                                                   -114,709000
     min
      25%
                     0.000000
                                 122017,000000
                                                     52,707600
                                                                   -114,519000
      50%
                                                     52.806400
                     0.000000
                                122032.000000
                                                                   -114.421000
     75%
                     0.000000
                                122048.000000
                                                     52.908900
                                                                   -114.315000
      max
                  2015.000000
                                122072.000000
                                                     53.007600
                                                                   -113.505000
             living_area_renov
                                                     Number of schools nearby
                                   lot_area_renov
                   14620.000000
                                     14620.000000
                                                                   14620.000000
      count
     mean
                    1996.702257
                                     12753.500068
                                                                       2.012244
     std
                     691.093366
                                     26058.414467
                                                                       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
     mean
                                64.950958
                                            5.389322e+05
                                 8.936008
      std
                                            3.675324e+05
                                50.000000
                                            7.800000e+04
     min
      25%
                                57.000000
                                            3.200000e+05
      50%
                                65.000000
                                            4.500000e+05
                                73,000000
                                            6.450000e+05
      75%
                                80,000000
     max
                                            7.700000e+06
      [8 rows x 23 columns]
print(df.corr())
```

```
0.341221
                                                                      0.258066
     Longitude
                                                      1,000000
                                                                      0.189225
     living_area_renov
                                                                      1.000000
     lot_area_renov
                                                      0.189225
     Number of schools nearby
                                                     -0.001203
                                                                     -0.025014
     Distance from the airport
                                                     -0.005673
                                                                      -0.014587
     Price
                                                      0.584924
                                                                      0.075535
                                             Number of schools nearby \
     id
                                                            -0.004821
                                                            -0.004071
     Date
     number of bedrooms
                                                             0.003397
     number of bathrooms
                                                             0.002180
                                                             0.002370
     living area
     lot area
                                                            -0.012671
     number of floors
                                                            -0.007579
     waterfront present
                                                             0.001563
     number of views
                                                             0.008004
     condition of the house
                                                            -0.006939
     grade of the house
                                                             0.000986
     Area of the house(excluding basement)
                                                            -0.002894
     Area of the basement
                                                             0.010284
     Built Year
                                                            -0.001631
     Renovation Year
                                                            -0.000826
     Postal Code
                                                             0.010605
     Lattitude
                                                             0.014949
     Longitude
                                                            -0.010163
     living_area_renov
                                                            -0.001203
     lot_area_renov
                                                            -0.025014
     Number of schools nearby
                                                             1.000000
     Distance from the airport
                                                             0.004035
                                                             0.009890
     Price
                                             Distance from the airport
                                                                           Price
     id
                                                             -0.004542 -0.773114
     Date
                                                              0.011457 -0.027919
     number of bedrooms
                                                             -0.006157 0.308460
     number of bathrooms
                                                              0.009206 0.531735
     living area
                                                              0.002511
                                                                        0.712169
     lot area
                                                              0.003291
     number of floors
                                                              0.016567
     waterfront present
                                                              0.001448 0.263687
     number of views
                                                             -0.001657
                                                                        0.395973
     condition of the house
                                                             -0.002136 0.041376
     grade of the house
                                                              0.004940
                                                                        0.671814
     Area of the house(excluding basement)
                                                              0.001222
                                                                        0.615220
     Area of the basement
                                                              0.002926
                                                                        0.330202
     Built Year
                                                             -0.003968 0.050307
     Renovation Year
                                                              0.005342 0.133173
     Postal Code
                                                              0.011528 -0.115908
     Lattitude
                                                              0.007193
                                                                        0.297490
                                                             -0.003100
     Longitude
     living_area_renov
                                                             -0.005673
                                                                        0.584924
                                                             -0.014587
                                                                        0.075535
     lot area renov
     Number of schools nearby
                                                              0.004035
                                                                        0.009890
                                                              1 000000
                                                                        0.003804
     Distance from the airport
                                                              0.003804 1.000000
     Price
     [23 rows x 23 columns]
print(df['number of floors'].value_counts())
     1.0
            7103
     2.0
            5666
     1.5
            1311
     3.0
             418
     2.5
             118
     3.5
               Δ
     Name: number of floors, dtype: int64
print('Mean:',df['number of bedrooms'].mean())
print('Median:',df['number of views'].median())
print('Mode:',df['number of bathrooms'].mode())
     Mean: 3.379343365253078
     Median: 0.0
     Mode: 0 2.5
     Name: number of bathrooms, dtype: float64
print(df.isnull().sum())
     id
                                               a
     Date
                                               0
     number of bedrooms
                                               0
     number of bathrooms
                                               0
     living area
                                               0
     lot area
                                               0
     number of floors
```

```
waterfront present
                                               0
     number of views
                                               0
     condition of the house
                                               0
     grade of the house
     Area of the house(excluding basement)
                                               0
     Area of the basement
     Built Year
                                               0
     Renovation Year
                                               0
     Postal Code
                                               0
                                               0
     Lattitude
     Longitude
                                               0
     living_area_renov
                                               0
     lot_area_renov
                                               0
     Number of schools nearby
                                               0
     Distance from the airport
                                               0
     Price
                                               a
     dtype: int64
df.dropna(inplace=True)
df.fillna(0,inplace=True)
df.interpolate(inplace=True)
from sklearn.preprocessing import StandardScaler
{\it from \ sklearn.preprocessing \ import \ MinMaxScaler}
x=df.drop(['number of floors','number of bedrooms'],axis=1)
x.set_index(['Date'],inplace=True)
y=df[['id','Price']]
```

x.head()

	id	number of bathrooms	living area	lot area	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	Post Cc
Date													
42491	6762810145	2.50	3650	9050	0	4	5	10	3370	280	1921	0	1220
42491	6762810635	2.50	2920	4000	0	0	5	8	1910	1010	1909	0	1220
42491	6762810998	2.75	2910	9480	0	0	3	8	2910	0	1939	0	1220
42491	6762812605	2.50	3310	42998	0	0	3	9	3310	0	2001	0	1220
42491	6762812919	2.00	2710	4500	0	0	4	8	1880	830	1929	0	1220

y.head()

```
\blacksquare
                 id
                       Price
      0 6762810145 2380000
      1 6762810635 1400000
      2 6762810998 1200000
      3 6762812605
                      838000
      4 6762812919
                      805000
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestRegressor
from sklearn.ensemble import GradientBoostingRegressor
from sklearn.metrics import r2_score
x\_train, x\_test, y\_train, y\_test = train\_test\_split(x, y['Price'], test\_size = 0.1, random\_state=2)
model = GradientBoostingRegressor(n_estimators=400,max_depth=5,min_samples_split=2,learning_rate=0.1)
model.fit(x_train,y_train)
                      GradientBoostingRegressor
     GradientBoostingRegressor(max_depth=5, n_estimators=400)
y_pred = model.predict(x_test)
model.score(x_test,y_test)
     0.9999939177665857
r2_score(y_pred,y_test)
```

0.9999939125375181

```
y_pred
```

```
array([467201.50782526, 244960.21568353, 250004.96234778, ...,
667579.67630798, 230141.09447065, 208356.81611335])

y_pred_list = y['Price'][-len(y_pred):].tolist()

y_pred_df=pd.DataFrame(y_pred_list,columns=['Date'])
y_pred_df["number of floors"]= y_pred.round(2)
```

y_pred_df

	Date	number of floors	
0	1100000	467201.51	ıl.
1	1040000	244960.22	
2	950000	250004.96	
3	932990	284580.81	
4	910000	485186.77	
1457	221700	1009906.80	
1458	219200	302627.98	
1459	209000	667579.68	
1460	205000	230141.09	
1461	146000	208356.82	

1462 rows × 2 columns