ASSIGNMENT - 1

Data Visualization

Assignment Date	21 April , 2023
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Student Roll Number	420620104323
Maximum marks	2 Mark

1. Download the dataset:

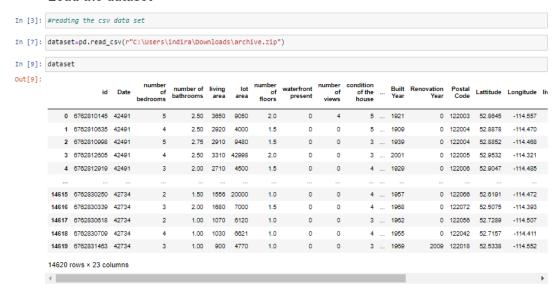
https://www.kaggle.com/datasets/mohamedafsal007/house-price-dataset-of-india?resource=download

2. Load the dataset:

```
In [1]: import pandas as pd

In [2]: import matplotlib.pyplot as plt
```

Load the dataset





3.Perform the Below Visualizations:

Visualizations

Univariate Analysis

Bi variate Analysis

```
In [16]: dataset.boxplot(column="Date")
Out[16]: <Axessubplot:>

42700
42650
42500
42500
Date
```

Multi variate Analysis

```
In [30]: plt.plot(dataset['id'])
Out[30]: [<matplotlib.lines.Line2D at 0x23594fd45e0>]

46.76280000000e9

25000

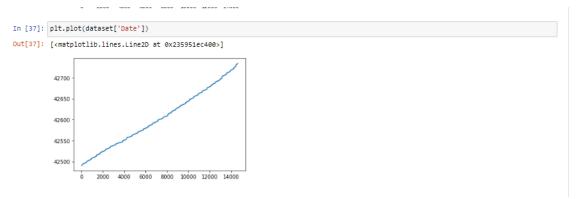
15000

10000

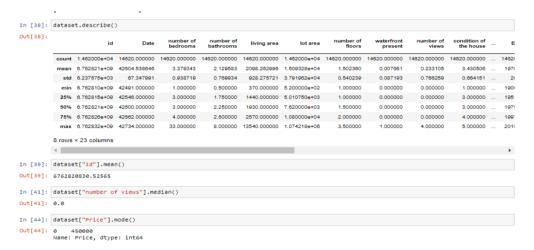
20000

0 2000 4000 6000 8000 10000 12000 14000
```



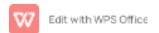


4.Perform descriptive statistics on the dataset:



5. Handle the Missing values:

```
Handle the missing values
In [45]: dataset.isnull().any()
Out[45]: id
                                                                            False
                                                                           False
False
              Date
              number of bedrooms
number of bathrooms
                                                                            False
              living area
lot area
number of floors
                                                                            False
                                                                           False
False
              waterfront present
number of views
condition of the house
                                                                           False
                                                                            False
                                                                            False
              grade of the house
Area of the house(excluding basement)
                                                                           False
False
              Area of the basement
                                                                            False
              Built Year
Renovation Year
                                                                           False
False
              Postal Code
                                                                            False
              Lattitude
                                                                            False
                                                                           False
              Longitude
             living_area_renov
lot_area_renov
Number of schools nearby
Distance from the airport
                                                                           False
False
                                                                           False
                                                                           False
False
              Price
dtype: bool
```



```
In [47]: dataset.skew()
                                                                                                 -0.000802
0.143747
2.663257
Out[47]: id
                 Date
number of bedrooms
number of bathrooms
living area
                                                                                                 0.556663
1.538337
10.155206
                  lot area
number of floors
waterfront present
                                                                                                0.586158
11.294672
                 number of views
condition of the house
grade of the house
Area of the house
(excluding basement)
Area of the basement
                                                                                                   3.409219
1.018018
                                                                                                  0.777584
1.436446
1.609744
                  Built Year
Renovation Year
                                                                                                 -0.472049
4.359764
                  Postal Code
Lattitude
                                                                                                 0.227735
-0.523831
                  Longitude
living_area_renov
                                                                                                  0.873803
1.081959
                  lot_area_renov
Number of schools nearby
Distance from the airport
                                                                                                   7.774206
                                                                                                  -0.022519
                                                                                                   0.006114
                  Price
dtype: float64
                                                                                                   4.269298
 In [ ]:
```