

```

import pandas as pd
import numpy as np
from sklearn.linear_model import LinearRegression
import matplotlib.pyplot as plt

housetdf=pd.read_csv("/content/drive/MyDrive/house(1)/
kc_house_data.csv")

housetdf.head()

{"type":"dataframe","variable_name":"housetdf"}

housetdf.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 21613 entries, 0 to 21612
Data columns (total 21 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   id               21613 non-null   int64  
 1   date              21613 non-null   object  
 2   price              21613 non-null   float64 
 3   bedrooms            21613 non-null   int64  
 4   bathrooms            21613 non-null   float64 
 5   sqft_living          21613 non-null   int64  
 6   sqft_lot              21613 non-null   int64  
 7   floors              21613 non-null   float64 
 8   waterfront            21613 non-null   int64  
 9   view                  21613 non-null   int64  
 10  condition             21613 non-null   int64  
 11  grade                  21613 non-null   int64  
 12  sqft_above             21613 non-null   int64  
 13  sqft_basement          21613 non-null   int64  
 14  yr_built                21613 non-null   int64  
 15  yr_renovated            21613 non-null   int64  
 16  zipcode                 21613 non-null   int64  
 17  lat                     21613 non-null   float64 
 18  long                     21613 non-null   float64 
 19  sqft_living15           21613 non-null   int64  
 20  sqft_lot15                21613 non-null   int64  
dtypes: float64(5), int64(15), object(1)
memory usage: 3.5+ MB

housetdf.isnull().sum()

id          0
date         0
price        0
bedrooms     0
bathrooms    0
sqft_living  0

```

```
sqft_lot      0
floors        0
waterfront    0
view          0
condition     0
grade          0
sqft_above    0
sqft_basement 0
yr_built      0
yr_renovated  0
zipcode        0
lat            0
long           0
sqft_living15 0
sqft_lot15    0
dtype: int64

inp=housedf[["bedrooms","waterfront","floors"]]
out=housedf["price"]

LR=LinearRegression()

Train_data=pd.concat([inp,out],axis=1)
train=Train_data.dropna()

inpl=train[["bedrooms","waterfront","floors"]]
out1=train["price"]

LR.fit(inpl,out1)

LinearRegression()

LR.predict([[3,4,5]])

/usr/local/lib/python3.12/dist-packages/sklearn/utils/
validation.py:2739: UserWarning: X does not have valid feature names,
but LinearRegression was fitted with feature names
    warnings.warn(
array([5444354.58189332])
```