Python 3.7.6 (default, Jan 8 2020, 16:21:45) [MSC v.1916 32 bit (Intel)]

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IPython 7.12.0 -- An enhanced Interactive Python.

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

In [**2**]: import numpy as np

In [**3**]: dataset = pd.read\_excel("Linear Regression.xlsx",sheet\_name=0)

In [**4**]: y=dataset.price

In [**5**]: x= dataset[["sqft\_living","bedrooms","bathrooms","floors"]]

In [**6**]: import statsmodels.api as sm

In [**7**]: x = sm.add\_constant(x)

In [**8**]: from sklearn import datasets

In [**9**]: from sklearn.model\_selection import train\_test\_split

In [**10**]: from sklearn.linear\_model import LinearRegression

In [**11**]: from sklearn.model\_selection import train\_test\_split

In [**12**]: x\_train, x\_test, y\_train, y\_test = train\_test\_split(x, y, test\_size=0.2, random\_state=0)

In [**13**]: regressor = LinearRegression()

In [**14**]: regressor.fit(x\_train, y\_train)

Out[**14**]: LinearRegression(copy\_X=True, fit\_intercept=True, n\_jobs=None, normalize=False)

In [**15**]: :coeff\_df = pd.DataFrame(regressor.coef\_, x.columns, columns=["bedrooms"])

File "<ipython-input-15-cc450e1071c6>", line 1

:coeff\_df = pd.DataFrame(regressor.coef\_, x.columns, columns=["bedrooms"])

^

SyntaxError: invalid syntax

In [**16**]: coeff\_df

Traceback (most recent call last):

File "<ipython-input-16-a2ce25a4d731>", line 1, in <module>

coeff\_df

NameError: name 'coeff\_df' is not defined

In [**17**]: result=regressor.fit()

Traceback (most recent call last):

File "<ipython-input-17-a7b086f3a787>", line 1, in <module>

result=regressor.fit()

TypeError: fit() missing 2 required positional arguments: 'X' and 'y'

In [**18**]: result=regressor.fit(x\_train, y\_train)

In [**19**]: result

Out[**19**]: LinearRegression(copy\_X=True, fit\_intercept=True, n\_jobs=None, normalize=False)

In [**20**]: coeff\_df = pd.DataFrame(regressor.coef\_, x.columns, columns=["bedrooms"])

In [**21**]: coeff\_df

Out[**21**]:

bedrooms

const 0.000000

sqft\_living 313.193785

bedrooms -56600.749170

bathrooms 5910.555085

floors 2453.136465

In [**22**]: coeff\_df = pd.DataFrame(regressor.coef\_, x.columns, columns=["sqrt\_living"])

In [**23**]: coeff\_df

Out[**23**]:

sqrt\_living

const 0.000000

sqft\_living 313.193785

bedrooms -56600.749170

bathrooms 5910.555085

floors 2453.136465

In [**24**]: coeff\_df = pd.DataFrame(regressor.coef\_, x.columns, columns=["bathrooms"])

In [**25**]: coeff\_df

Out[**25**]:

bathrooms

const 0.000000

sqft\_living 313.193785

bedrooms -56600.749170

bathrooms 5910.555085

floors 2453.136465

In [**26**]: coeff\_df = pd.DataFrame(regressor.coef\_, x.columns, columns=["floors"])

In [**27**]: coeff\_df

Out[**27**]:

floors

const 0.000000

sqft\_living 313.193785

bedrooms -56600.749170

bathrooms 5910.555085

floors 2453.136465

In [**28**]: