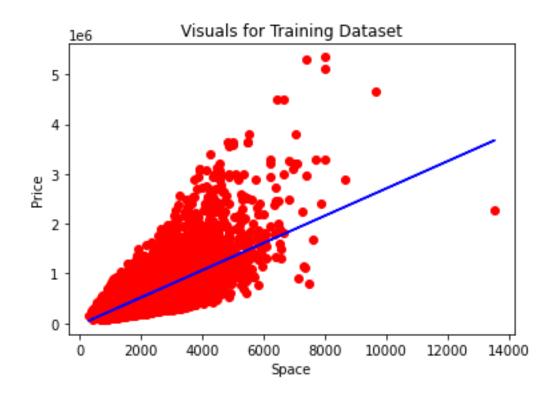
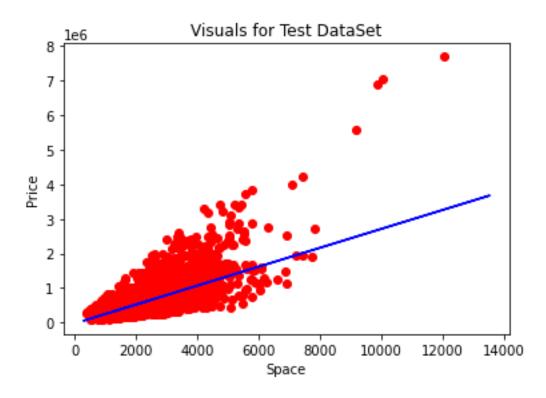
House_price_prediction

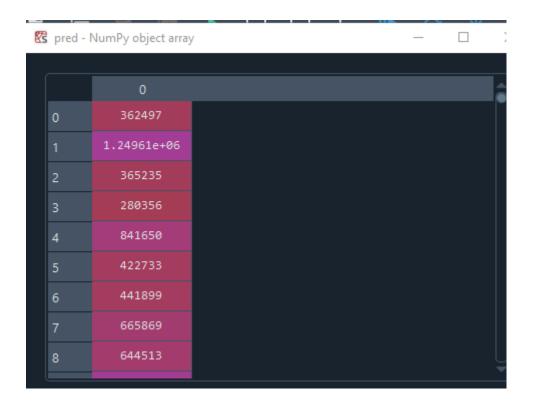
test_size=1/3, random_state=0:

```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
Housedata=pd.read_csv(r'C:\Users\DELL\Downloads\5th\5th\5LR - Practicle\House_data.csv')
Housedata
space=Housedata['sqft_living']
price=Housedata['price']
x = np.array(space).reshape(-1, 1)
y = np.array(price)
from sklearn.model_selection import train_test_split
xtrain, xtest, ytrain, ytest = train_test_split(x,y,test_size=1/3, random_state=0)
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(xtrain, ytrain)
pred = regressor.predict(xtest)
plt.scatter(xtrain, ytrain, color= 'red')
plt.plot(xtrain, regressor.predict(xtrain), color = 'blue')
plt.title ("Visuals for Training Dataset")
plt.xlabel("Space")
plt.ylabel("Price")
plt.show()
plt.scatter(xtest, ytest, color= 'red')
plt.plot(xtrain, regressor.predict(xtrain), color = 'blue')
plt.title("Visuals for Test DataSet")
plt.xlabel("Space")
plt.ylabel("Price")
plt.show()
```





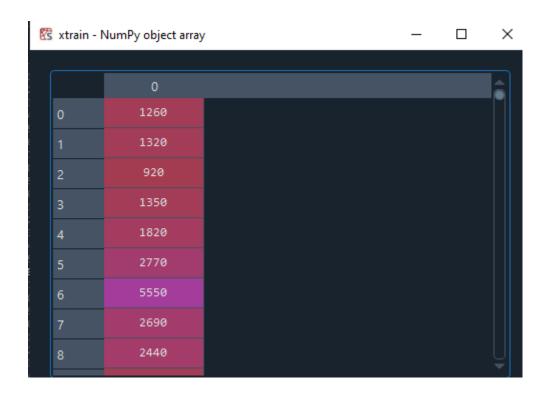
Prediction_Table:



X_Test:



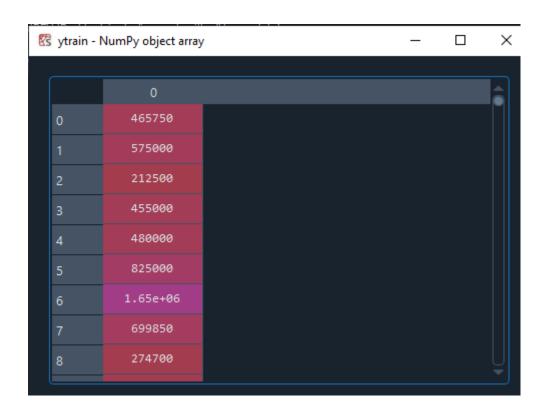
X_Train:



Y_Test:



Y_Train:



X_Independent_variable:

```
    Index
    sqft_living

    0
    1180

    1
    2570

    2
    770

    3
    1960

    4
    1680

    5
    5420

    6
    1715

    7
    1060

    8
    1780
```

Y_Dependent_variable:

