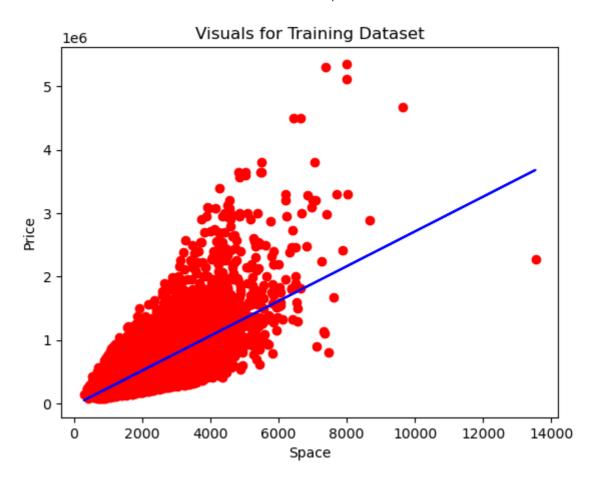
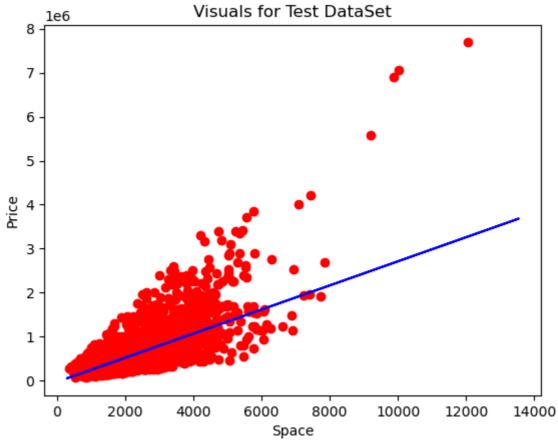
```
In [23]: #Import Libraries
         import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
         #np.set_printoptions(threshold=np.nan)
         #Importing DataSet
         dataset = pd.read_csv(r'C:\Users\soham\OneDrive\Desktop\20th- (S20)\SLR - House
         space=dataset['sqft_living']
         price=dataset['price']
         x = np.array(space).reshape(-1, 1)
         y = np.array(price)
         #Splitting the data into Train and Test
         from sklearn.model_selection import train_test_split
         xtrain, xtest, ytrain, ytest = train_test_split(x,y,test_size=1/3, random_state=
         #Fitting simple linear regression to the Training Set
         from sklearn.linear_model import LinearRegression
         regressor = LinearRegression()
         regressor.fit(xtrain, ytrain)
         #Predicting the prices
         pred = regressor.predict(xtest)
         #Visualizing the training Test Results
         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()
         #Visualizing the Test Results
         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()
```



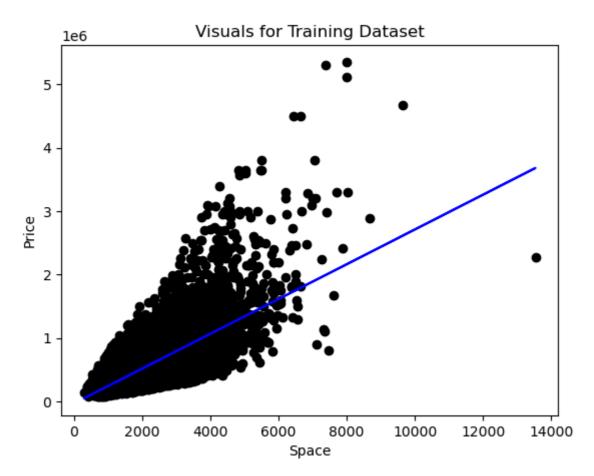


In [3]: #Import Libraries
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
#np.set\_printoptions(threshold=np.nan)

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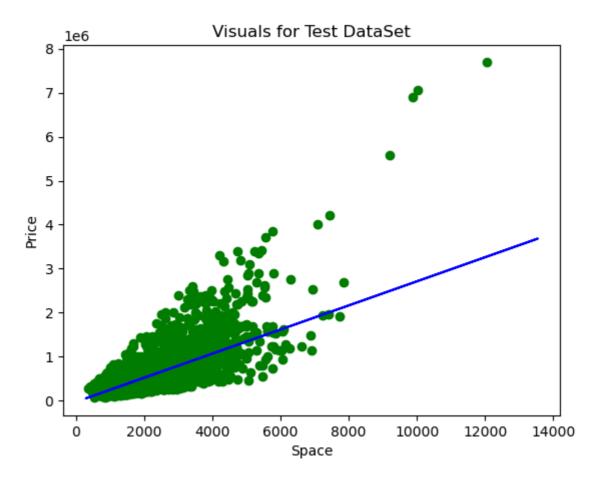
```
In [5]: #Importing DataSet
         dataset = pd.read_csv(r'C:\Users\soham\OneDrive\Desktop\20th- (S20)\SLR - House
         space=dataset['sqft_living']
         price=dataset['price']
 In [7]: x = np.array(space).reshape(-1, 1)
         y = np.array(price)
In [11]: #Splitting the data into Train and Test
         from sklearn.model_selection import train_test_split
         xtrain, xtest, ytrain, ytest = train_test_split(x,y,test_size=1/3, random_state=
In [13]: #Fitting simple linear regression to the Training Set
         from sklearn.linear_model import LinearRegression
         regressor = LinearRegression()
         regressor.fit(xtrain, ytrain)
Out[13]:
             LinearRegression •
         LinearRegression()
In [15]: #Predicting the prices
         pred = regressor.predict(xtest)
In [25]: #Visualizing the training Test Results
         plt.scatter(xtrain, ytrain, color= 'black')
         plt.plot(xtrain, regressor.predict(xtrain), color = 'blue')
         plt.title ("Visuals for Training Dataset")
         plt.xlabel("Space")
         plt.ylabel("Price")
         plt.show()
```

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```
In [27]: #Visualizing the Test Results
    plt.scatter(xtest, ytest, color= 'green')
    plt.plot(xtrain, regressor.predict(xtrain), color = 'blue')
    plt.title("Visuals for Test DataSet")
    plt.xlabel("Space")
    plt.ylabel("Price")
    plt.show()
```

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In [ ]