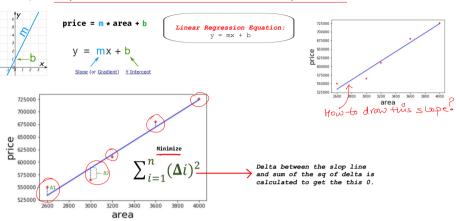
Simple Linear Regression: [One independent and one dependent vairbale]

Simple Linear Regression is a type of Regression algorithms that models the <u>relationship between a dependent</u> variable and a single independent variable. The relationship shown by a Simple Linear Regression model is <u>linear</u> or a <u>sloped straight line</u>, hence it is called Simple Linear Regression.

The key point in Simple Linear Regression is that the <u>dependent variable must be a continuous/real value</u>. However, the independent variable can be measured on continuous or categorical values.



```
import numpy as np
import matplotlib.pyplot as plt
from sklearn import linear_model
plt.plot(df,year, reg.predict(df[['year']]), color='blue')
reg.predict([[2020]])
          array([828.46507522])
              40000
              30000
             10000
                                           1990
                                                      2000
          -1632210.7578554575
    [14]: 41288.694088942604
```