# Lab3_MulipleLinear_model

The model is multiple linear model, it accepts the multiple input house's bedrooms, sqft_living features and predict house's price, using StandardScaler due to the range between ranges different from each other.

The coefficient of bedrooms is **-53567**and sqft_living is **288668**, the intercept value is **540167**.

If we increase **1 standard deviation increase of bedroom**, the **predicted price decreases by 53567.**

If we increase **1 standard deviation increase of sqft_living**, the **predicted price increased by 288668.**

We tested using 2 bedrooms, 860 sqft_living input and the predicted price is **235933**.

The average price that using the same test input from the train data is **303760**.

Then average of the squared differences between predicted and actual values on the same training data using scaled data is **0.51**.

The average of the squared differences between predicted and actual values on the same training data is **66465040516.**

The average of the absolute differences between predicted and actual values on the same training data **170271.**

As per average of the squared value we can determine, the model is partially effective, need to improve. We can add more input features, to improve the model prediction.