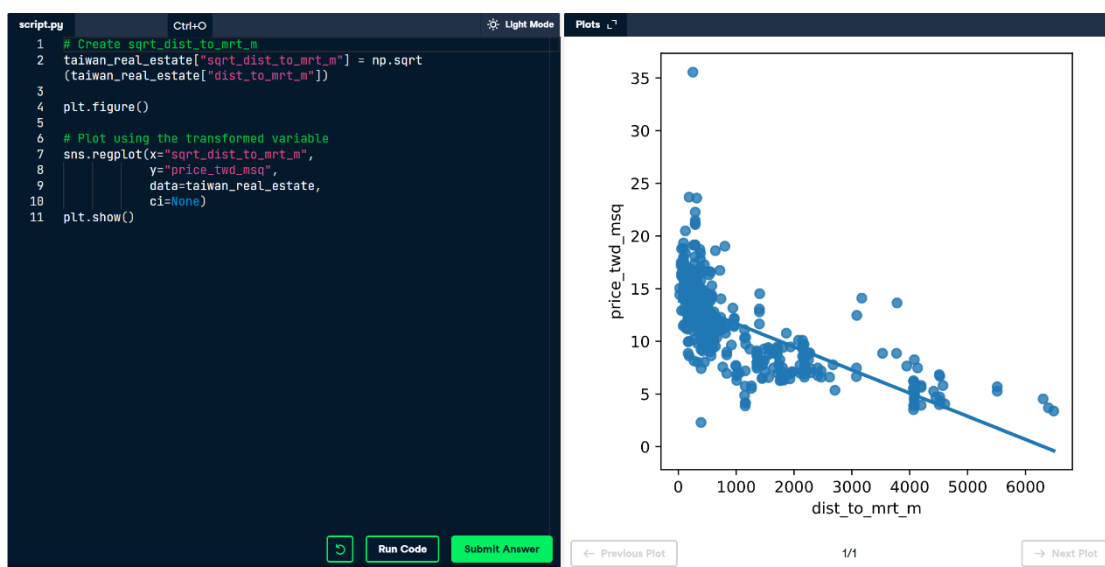


## Data Modeling 數據建模

(seaborn regplot&scatterplot, statmodels.formula.api ols)

The model before transform 模型轉換前



將 x 軸用 np.sqrt 平方根後，數值修正，得到正確的分布

The model after transform 模型轉換後



利用上述模型，與預測模型(線上紅點)做比較，觀察結果跟預測數值差異



## Linear Regression 線性回歸分類比較

```
script.py
1 # Update the model formula to remove the intercept
2 mdl_price_vs_age0 = ols("price_twd_msq ~ house_age_years + 0", data=taiwan_real_estate).fit()
3
4 # Print the parameters of the fitted model
5 print(mdl_price_vs_age0.params)
```

Run Code Submit Answer

IPython Shell Slides Notes

```
house_age_years[1:30 to 45] -1.244
dtype: float64

<script.py> output:
Intercept          12.637
house_age_years[7.15 to 30] -2.761
house_age_years[7.30 to 45] -1.244
dtype: float64

# Update the model formula to remove the intercept
mdl_price_vs_age0 = ols("price_twd_msq ~ house_age_years + 0", data=taiwan_real_estate).fit()

# Print the parameters of the fitted model
print(mdl_price_vs_age0.params)
```

house_age_years[0 to 15]	12.637
house_age_years[15 to 30]	9.877
house_age_years[30 to 45]	11.393

dtype: float64

In [1]: