

Exercise:3
HOUSE PRICE PREDICTION

1. Linear regression can be used to predict housing prices based on factors such as location, square footage, number of bedrooms and bathrooms, and other amenities. Using the following dataset build **Multiple Regression** model for house price prediction.

<https://www.kaggle.com/datasets/yasserh/housing-prices-dataset/download?datasetVersionNumber=1>

2. apply the polynomial regression on the following synthetic data

X	y
-2	4.903
-1.833	4.406
-1.667	3.891
-1.5	3.364
-1.333	2.829
-1.167	2.289
-1	1.748
-0.833	1.211
-0.667	0.682
-0.5	0.166
-0.333	-0.343
-0.167	-0.832
0	-1.313
0.167	-1.782
0.333	-2.237
0.5	-2.676
0.667	-3.098
0.833	-3.502
1	-3.887
1.167	-4.254
1.333	-4.601
1.5	-4.93
1.667	-5.24
1.833	-5.531
2	-5.802