

### Problem 3(a)

Random Forest Boston Housing

Train RMSE: 5.515574182181881

Test RMSE: 5.551093717718717

Performance of RF comparing to least square and regression



From the above plot it is evident that both in train and test cases for Boston housing data Least-Square is performing best than random forest and ridge regression.

### Problem 3(b)

Credit-g-dataset:

Train Accuracy: 0.7114285714285714

Test Accuracy: 0.7066666666666667

Breast-cancer dataset:

Train Accuracy: 0.8844221105527639

Test Accuracy: 0.9064327485380117

