**HOUSE PRICES – ADVANCED REGRESSION**

**ABOUT THE DATASET**

The dataset is obtained from Kaggle and it is a Competition Dataset which contains **79 features** which influences the price of Homes at Ames, Iowa. The competition organiser also boasts about the advantages of not just estimating house price using number of bedrooms or the fence around the house usually done by the brokers. Yeah, he is right, when you can accurately predict the house price using **Advanced Regression** techniques then why bother about a House Broker's price estimate?

### PROBLEM STATEMENT

The problem will be addressed if we build predictive models using Advanced Regression Techniques and train the model so that it can accurately predict the value of House price which is **SalePrice** - Target variable.

### CLIENT

Our Fictional Client is one of the **House Brokerage Firms** in Ames, Iowa looking to determine the exact house price by using our model predictions. Well! its very important to satisfy to the client requirements and hence a best model should be built to predict house prices accurately.

**TASKS TO PERFORM**

1. Data Cleaning, Outlier Analysis and Exploratory Data Analysis
2. Use Heatmap and Correlation to find the Correlation among features
3. Analyze all the features and perform log transform for the skewed features
4. Data Visualization using Seaborn
5. Dummifying Categories and Finding Most Important Features
6. Model building including Lasso and Ridge Regression
7. Model Validation using plenty of good validators
8. Conclusion by publishing the research, findings and result