**House Grade Prediction-Problem Statement**

**Objective of the problem:**The objective of the problem is to predict values for “Grade” attribute from the given features of the Test data. Please note that the predictions are to be written to an output csv file which contains the predictions appended as a new column to the test data.

**Description of files:**

**• Training File:** All features including the target would be present in this file. Machine learning model would be trained using this file. This file is to be used for training and validation.

**• Test File:** This file contains all features, but the target variable. Prediction is to be made for all entries in the test file.

**Description of attributes:** Please go through the following to understand every variable:

* Area(total): Total area of the plot.
* Trooms: Total Number of rooms in the house
* Nbedrooms: Number of bedroom in the house.
* Nbwashrooms: Number of washroom attached with bedroom
* Twashrooms: total number of washroom in the house.
* Roof: Does the house has roof(yes or no)
* Roof(Area): Total area of the terrace
* Lawn(Area): Area of the lawn including garden and parking
* Nfloor: Number of floors in the house
* API: Air purity index api is in percentage for example if api is 85 it means its 85% of the standard api for the city.
* ANB: Amenities near by amenities like hospital, park , multiplex , malls etc within 2 miles.
* Expected price: price expected by seller.
* Grade: Grade provided by company that depends on the condition and other features mentioned in the data. A is the best grade and E is worst.