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**ROLL NO**: BSAIM-F23-05

**SUBJECT**: PAILAB-TASK1

**House price competition**

**How and why?**

This code is for the prediction of house sale price for each house based on the dataset, this is the house pricing kaggle competition. It start by loading the dataset and reading the data and checks what kind of information it has.

We will import the libraries like pandas, num pay, matplotlib etc which handle data, making garphs and building machine learning model.

It loads and explore data, cleans it by handling missing values, and converts non-numeric data into a usable format. Then, it builds models like Linear Regression, Random Forest, and Gradient Boosting, splits the data for training and testing, and checks accuracy by calculating errors.

And in the end it preprocesses the test data makes predictions and creates a submission file with the predicted prices, saving it as submission.csv as you can see it in the last few lines.

**Output:**

