Imported and loaded House Price Prediction dataset(train and test)

Imported necessary libraries

Handled missing values:

- Numerical columns: filled with median.

- Categorical columns: filled with None

Separated the target SalePrice from train dataset columns.

Categorical features: applied One-Hot Encoding.

Aligned train and test feature columns after encoding.

Done log transformation to the skewed numerical using np.log1p()

Also log-transformed SalePrice

Applied RandomForestregressor

Evaluated using RMSE on the log scale, then converted back to original scale to interpret actual error in SalePrice

Identified which features most influence the predictions from the trained Random Forest using .feature\_importances\_

Used the trained model to predict on the test dataset

Converted predictions back from log scale to original scale.

Saved submission file House\_Price\_Prediction.csv