MACHINE LEARNING PROJECT

Scenario: House Price Prediction using Multiple Linear Regression

1. Short Description
This project focuses on predicting house prices using machine learning techniques. The price depends on area, number of bedrooms, and location rating. Since multiple independent variables influence a single output, Multiple Linear Regression is used.

2. Objective of the Project
To predict house prices accurately based on various housing features using a supervised learning model.

3. Problem Type
Regression Problem – output is a continuous numerical value.

4. Prediction Type
Supervised Learning
Continuous Value Prediction

5. Model Used
Multiple Linear Regression is used because multiple independent variables influence the dependent variable (house price).

6. Dataset Used (CSV)
Area, Bedrooms, Location, Price (Target).

7. Workflow of the Project
1. Import libraries
2. Load dataset
3. Preprocess data
4. Train model
5. Predict price
6. Display result

8. Output Expected
The system predicts accurate house prices based on user input.

9. Conclusion
The House Price Prediction system was successfully implemented using Multiple Linear Regression and provides reliable predictions.