Source code:

# Import libraries

Import pandas as pd

from sklearn.model\_selection import train\_test\_split

from sklearn.linear\_model import LinearRegression

from sklearn.metrics import mean\_squared\_error, r2\_score

# Step 1: Load the data

# (You can create a small dummy dataset if you don't have a CSV)

data = {

'Area': [1000, 1500, 1800, 2400, 3000, 3500],

'Bedrooms': [2, 3, 3, 4, 4, 5],

'Age': [10, 5, 8, 12, 7, 3],

'Price': [200000, 250000, 280000, 350000, 400000, 450000]

}

df = pd.DataFrame(data)

# Step 2: Set Features (X) and Target (y)

X = df[['Area', 'Bedrooms', 'Age']]

y = df['Price']

# Step 3: Split data into Train and Test

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.2, random\_state=1)

# Step 4: Train a Simple Linear Regression Model

model = LinearRegression()

model.fit(X\_train, y\_train)

# Step 5: Predict on Test Data

y\_pred = model.predict(X\_test)

# Step 6: Evaluate the model

mse = mean\_squared\_error(y\_test, y\_pred)

r2 = r2\_score(y\_test, y\_pred)

print("Mean Squared Error:", mse)

print("R2 Score:", r2)

# Step 7: Predict New House Price (Proper way)

new\_house = pd.DataFrame({

'Area': [2000],

'Bedrooms': [3],

'Age': [5]

})

predicted\_price = model.predict(new\_house)

print("Predicted Price for new house:", predicted\_price[0])