Regression task:

➔ You will find house_data dataset on the drive, use it to solve the assignment.

1. **Dataset Exploration:**
   - Load the dataset and explore its structure.
   - Identify the target variable and potential features for linear regression.

2. **Data Preprocessing:**
   - Handle missing values: Decide on an appropriate strategy (imputation, removal, etc.).
   - Explore and address outliers if present.
   - Check for and handle any categorical features using encoding techniques.

3. **Exploratory Data Analysis (EDA):**
   - Visualize the distribution of the target variable.
   - Examine the relationships between features and the target through pair plots or correlation matrices.

4. **Feature Scaling:**
   - Apply feature scaling if needed to ensure that all features are on a similar scale.

5. **Train-Test Split:**
   - Split the dataset into training and testing sets.

6. **Linear Regression Model:**
   - Build a linear regression model using a suitable library (e.g., scikit-learn).
   - Train the model on the training dataset.

7. **Model Evaluation:**
   - Evaluate the model's performance on the testing set.
   - Use appropriate regression metrics (e.g., Mean Squared Error, R-squared).

8. **Visualization:**
   - Visualize the predicted values against the actual values using scatter plots or regression plots.

9. **Conclusion:**
   - Summarize the findings from the linear regression task.
   - Reflect on the model's performance and potential areas for improvement.