

Implement Linear and Logistic Regression in R

AIM:

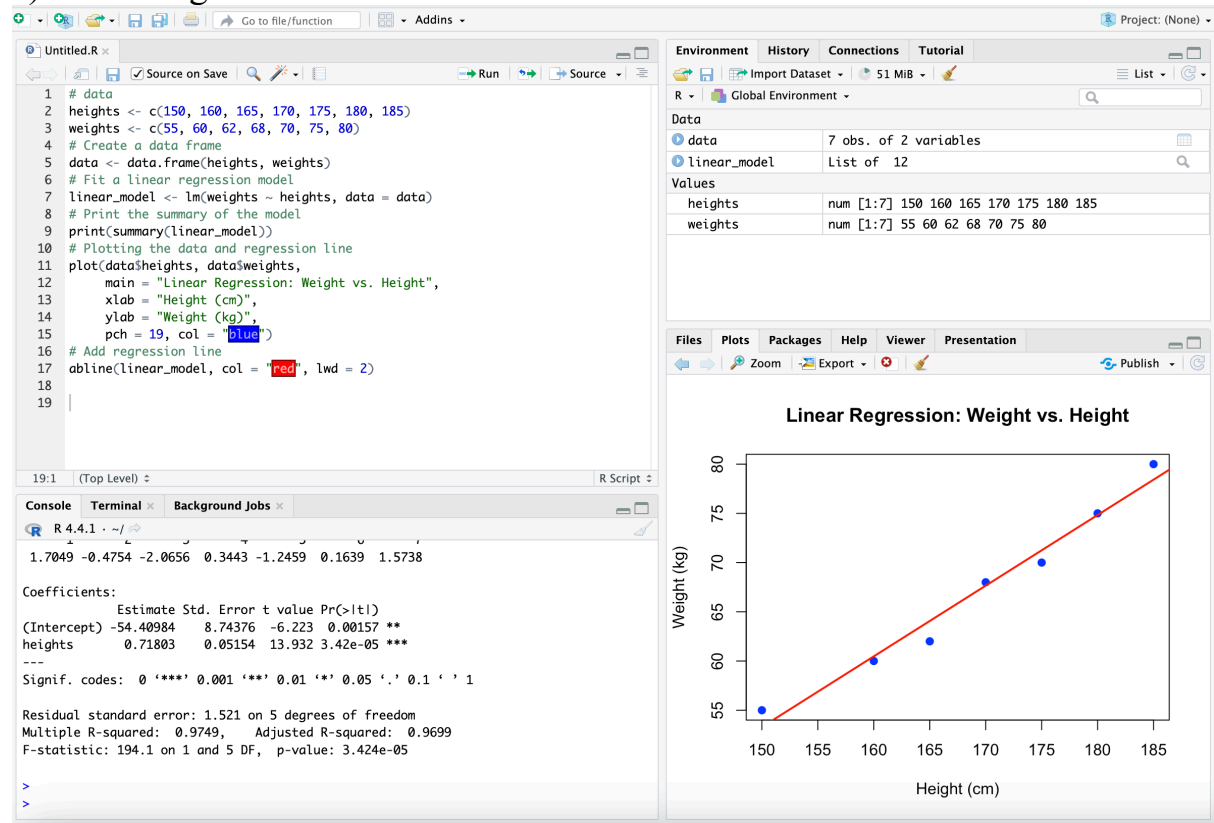
To Implement Linear and Logistic Regression using R

PROCEDURE:

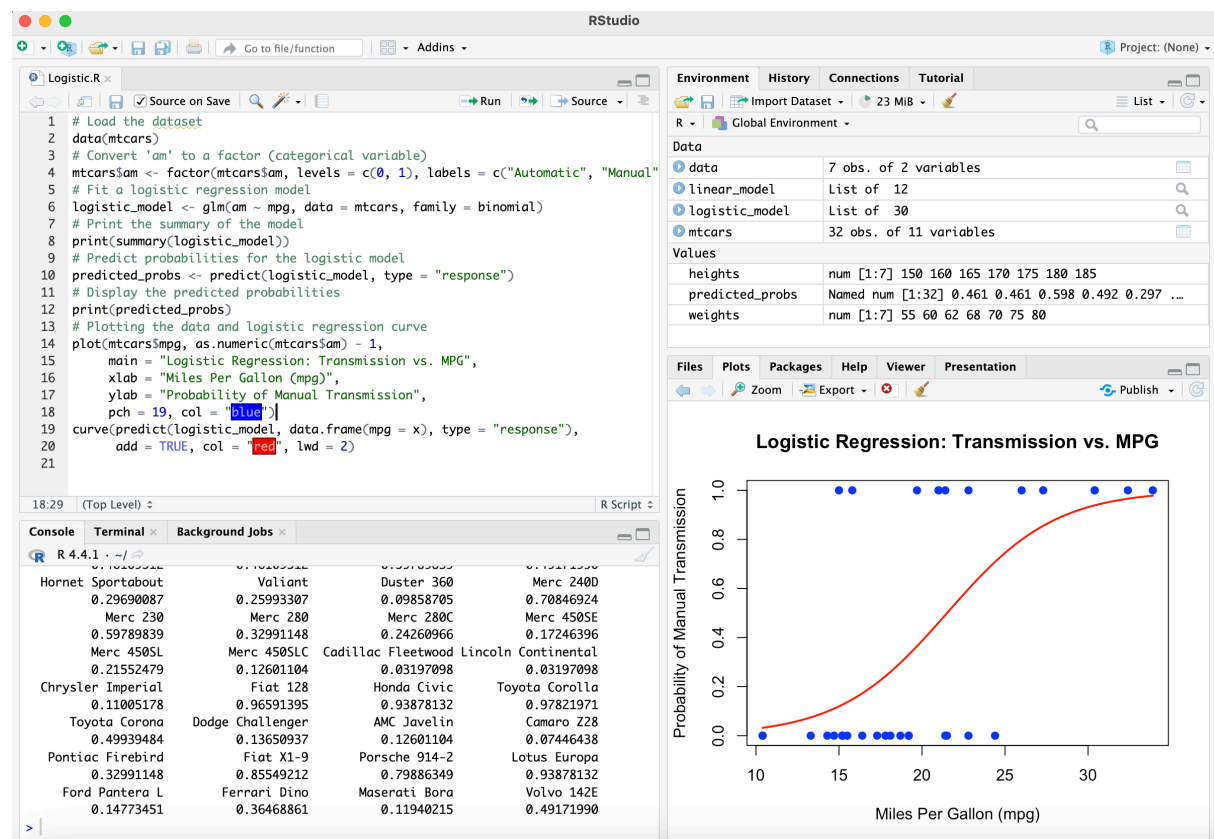
1. Collect and load the dataset from sources like CSV files or databases.
2. Clean and preprocess the data, including handling missing values and encoding categorical variables.
3. Split the dataset into training and testing sets to evaluate model performance.
4. Normalize or standardize the features to ensure consistent scaling.
5. Choose the appropriate model: Linear Regression for continuous outcomes.
6. Train the model on the training data using the ``fit`` method.
7. Make predictions on the testing data using the ``predict`` method.
8. Evaluate the model using metrics like Mean Squared Error (MSE) for Linear Regression or accuracy and confusion matrix for Logistic Regression.
9. Visualize the results with plots, such as scatter plots for Linear Regression or decision boundaries for Logistic Regression.
10. Fine-tune the model by adjusting hyperparameters or applying regularization Techniques.

OUTPUT:

a) Linear Regression:



b) Logistic Regression:



RESULT:

Thus to Implement Linear and Logistic Regression using R has been successfully executed.