**Assignment Problems: Day 5**

The following problems require access to the file named ‘Dataset\_Day5.csv’, provided with this assignment. (**Everyone** **must use Random State = 100**)

A screenshot of a computer

Description automatically generated with low confidence

Problems to solve –

1. Perform a complete data inspection including – (20 marks)
   1. Outliers, Missing Data Treatment
   2. Descriptive Statistics of each variable (Eg. Boxplot, Histogram etc.)
   3. Visualization of all continuous variables
2. Create a simple linear regression model that quantitatively relates ‘*MEDV*’ with ‘*RM*’. (10 marks)
   1. Share the model performance metrics and print the full regression model with coefficients.
   2. Use the model to predict the price of the house for ‘*RM*’ = 7
3. Create a simple linear regression model that quantitatively relates ‘*MEDV*’ with ‘*DIS’*. (10 marks)
   1. Share the model performance metrics and print the full regression model with coefficients.
   2. Use the model to predict the price of the house for ‘*DIS*’ = 15