

## Module 5: Assignment 5 – Prediction for Simple Linear Model

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### Problem Statement:

You work in XYZ Corporation as a Machine Learning Engineer. After training the simple linear model, now the corporation wants you to predict the values on top of the test set.

### Tasks to be performed:

1. After building a simple linear model on top of the train set for the city\_temperature data frame, now find the prediction values of the model1 on top of the test dataset.
    - a. Now combine the actual values and predicted values of the model and store that combined data in a new data frame named 'Result1'.
    - b. Find out the errors in the predicted values.
  2. After building a simple linear model on top of the train set for the Placement\_Data\_Full\_Class data frame, now find the prediction values of the model1 on top of the test dataset.
    - a. Now combine the actual values and predicted values of the model and store that combined data in a new data frame named 'Result2'.
    - b. Find out the errors in the predicted values.
  3. After building a simple linear model on top of the train set for the Pharmacovigilance\_audit\_Data data frame, now find the prediction values of the model1 on top of the test dataset.
    - a. Now combine the actual values and predicted values of the model and store that combined data in a new data frame named 'Result3'.
    - b. Find out the errors in the predicted values.
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