Module 9: K-Means Case Study

Problem Statement:

Consider yourself to be Sam who is a data scientist. He has been approached by a retail car showroom to help them segregate the cars into different clusters.

Tasks To Be Performed:

1. Building the K-Means clustering algorithm:
   a. Start off by extracting the 'mpg', 'disp' & 'hp' columns from the 'mtcars' data.frame. Store the result in 'car_features'
   b. Build the K-Means algorithm on top of 'car_features'. Here, the number of clusters should be 3
   c. Bind the clustering vector to 'car_features'
   d. Extract observations belonging to individual clusters

2. On the same 'car_features'dataset build a K-Means algorithm, where the number of clusters is 5
   a. Bind the clustering vector to 'car_features'
   b. Extract observations belonging to individual clusters