K-means Assignment

### **Problem Statement:**

Sam has successfully built supervised learning algorithms on the data. Now, Sam decides to implement unsupervised learning on the data.

Sam decides to cluster the data by building the k-means algorithm

## Questions on k-means:

1. Building the k-means clustering algorithm:
   1. Start off by extracting the ‘MonthlyCharges’, ‘tenure’ & ‘TotalCharges’ columns from the ‘customer\_churn’ data.frame. Store the result in ‘customer\_features’
   2. Remove any ‘NA’ values from ‘customer\_features’ if present
   3. Build the kmeans algorithm on top of ‘customer\_features’. Here, the number of clusters should be 3
   4. Bind the clustering vector to ‘customer\_features’.
   5. Extract observations belonging to individual clusters