**Lab Assign-10- Clustering- European Protein Consumption**

* Read the dataset **"protein.csv"** that is provided to you.
* Build a suitable clustering model using R/Python based on k-means clustering approach.
* Plot the clusters and show how the model varies with different values of k.
* Develop some metrics to determine the accuracy of your clustering model

**Notes**

* We consider 25 European countries (n = 25 units) and their protein intakes (in percent) from nine major food sources (p = 9).
* For example, Austria gets 8.9% of its protein from red meat, 19.9% from milk, and so on.
* It is of interest to learn whether the 25 countries can be separated into a smaller number of clusters.
* We can start by clustering on first two features, protein intake from red and white meat.
* Scatter plot of protein intake from white meat against protein intake from red meat labels the k-means cluster associations of the countries in color.
* Clusters are formed by minimizing the Euclidean distance to the respective cluster centroids.
* Then we can try further by adding more features for clustering.