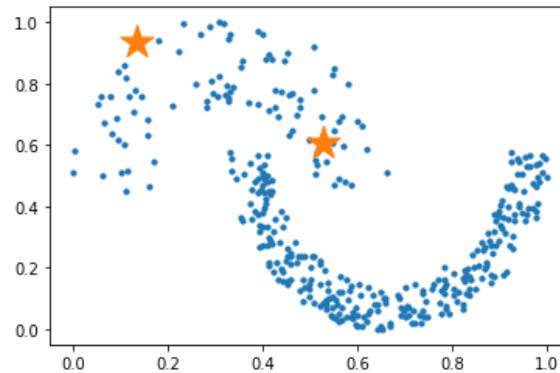# K-Means Clustering Implementation

You need to complete the following tasks in this assignment:

1. Load Data (Samples & Initial Centroids) into **numpy** arrays and plot initial graph: **10%**
   a. **Uploaded into the eLMS**

2. Implement the K-Means Clustering Algorithm: **60%**
3. Plot the Scatter plots showing the clusters with centroids and each cluster in a separate color like the following: **30%**
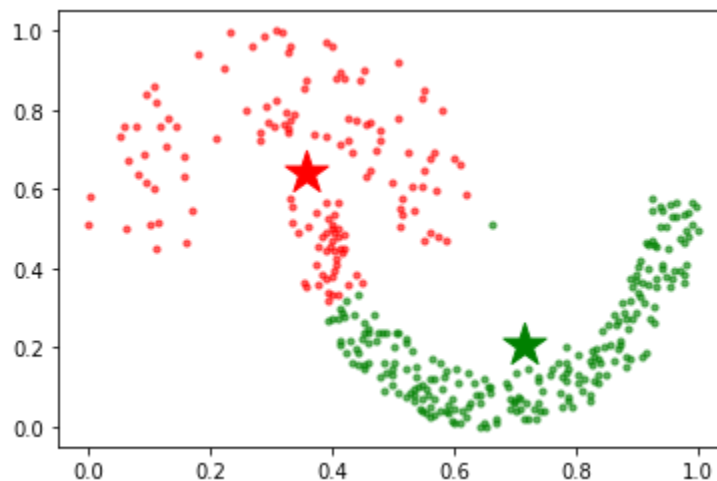
Logistic Regression Binary Classifier Algorithm:
  📄 Kmeans Algorithm Steps

Instructions:
  ❖ You **MUST USE the PROVIDED DATASET**
  ❖ You **must follow the steps mentioned in** 📄 Kmeans Algorithm Steps
  ❖ **Any sort of plagiarism will result in negative marking**
  ❖ Implement in Python

- ❖ **DO NOT USE** libraries such as: "**Sklearn**", "**Scikit learning**" for steps 2-3
- ❖ Generalize data loading and generation predictions from classifier so that you can easily run the training and evaluation on new dataset during viva