Assignment 9 – Clustering

Submission

Submit your code files under Assignment 9 by the due date specified in Blackboard. Plan to **demonstrate** your working program to the instructor in class after the due date.

Details

You should write a program to implement the k-means algorithm

- The input to your program will be a set of 150 observations of iris data
- Each observation contains petal length, petal width, sepal length, sepal width and the type of iris
- The algorith has been explained in videos and text in the lectures on slides 16 - 31

Requirements

- You should run your program with k=3
- Your output should be similar to the chart below i.e., it should give a number of each species of iris in each cluster

Table of CLUSTER by Species

	Species			
CLUSTER	Setosa	Versicolor	Virginica	Total
1	0	49	15	64
2	0	1	35	36
3	50	0	0	50
Total	50	50	50	150