

Machine Learning and Pattern Recognition LAB

LAB-4 : K-means Clustering

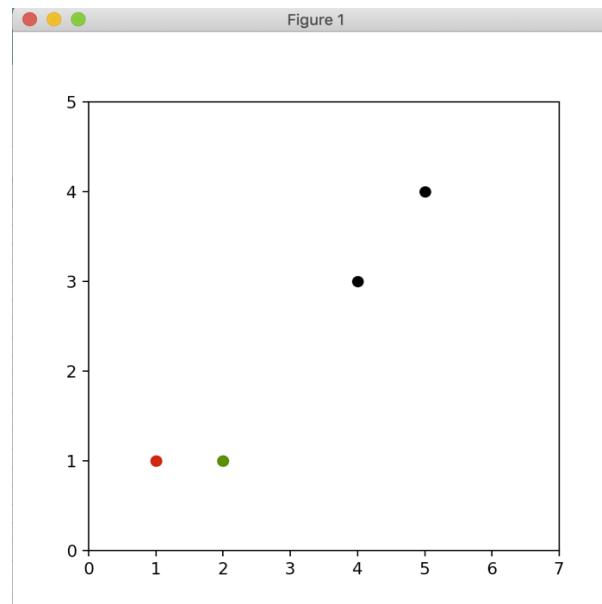
Implement K-means on the following dataset.

Observations

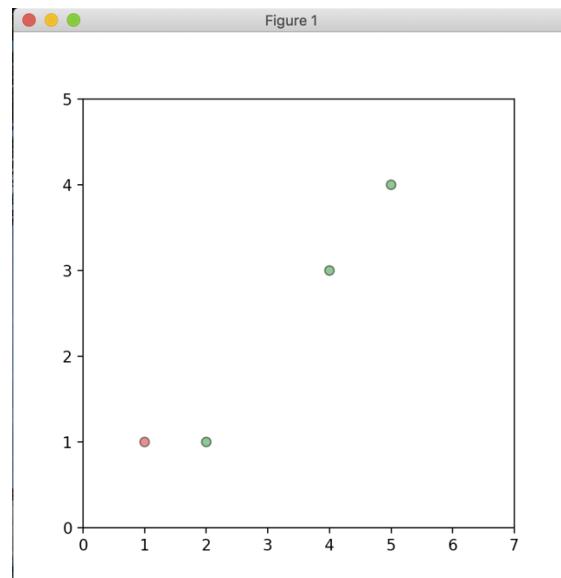
1. The dataset is as follows:

	X	Y
M1	1	1
M2	2	1
M3	4	3
M4	5	4

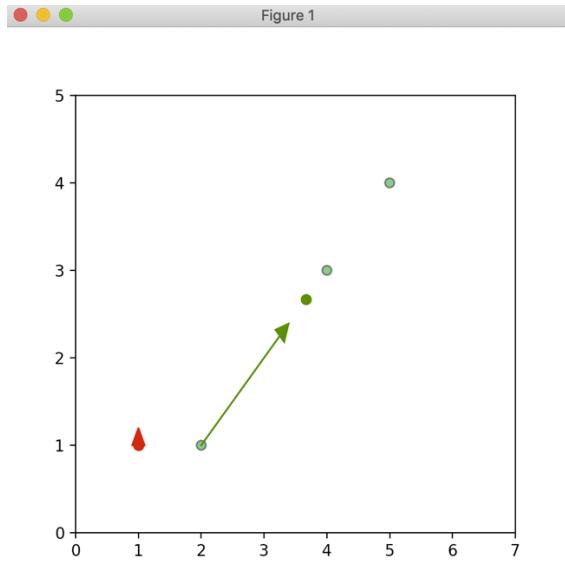
GRAPH 1



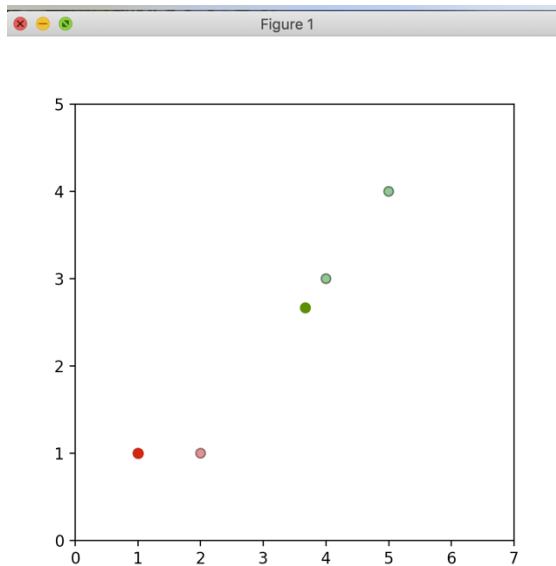
GRAPH 2



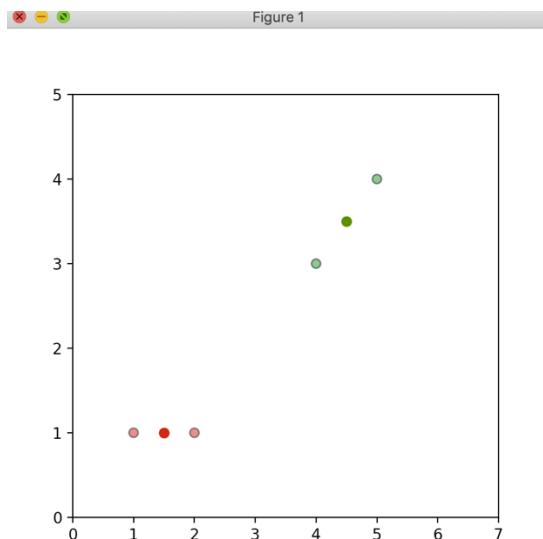
GRAPH 3



GRAPH 4



GRAPH 5



Final Centroids:

Centroid 1: (1.5, 1.0)

Centroid 2: (4.5, 3.5)