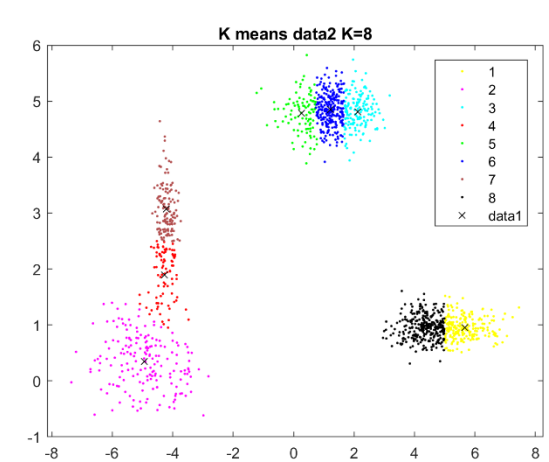
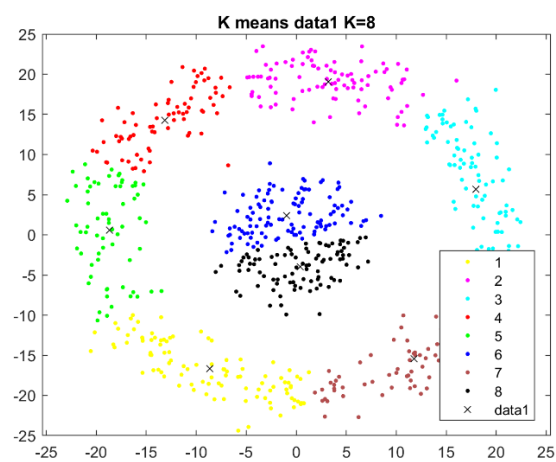
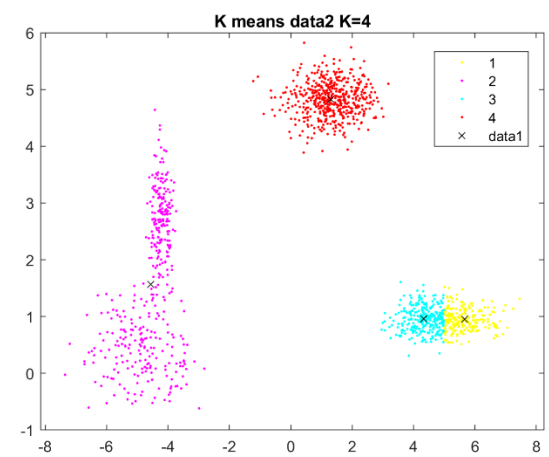
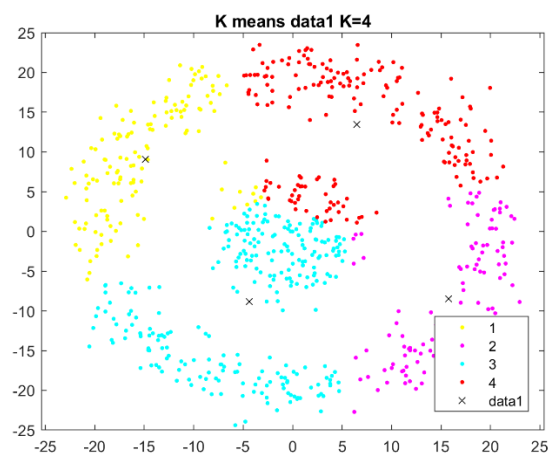
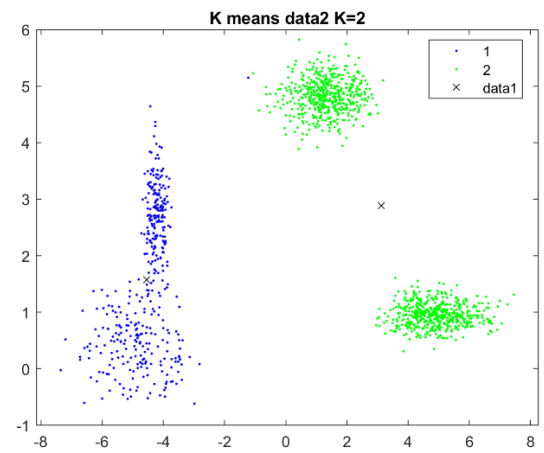
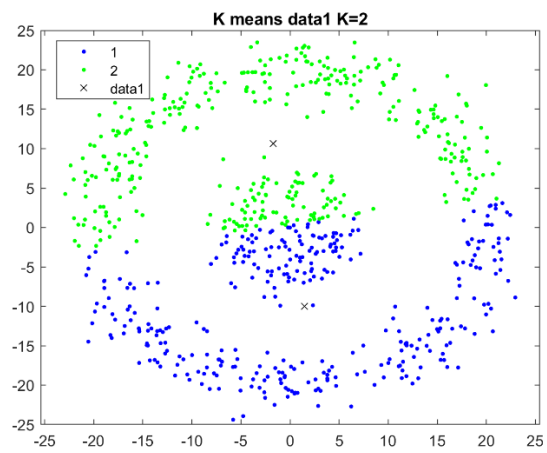
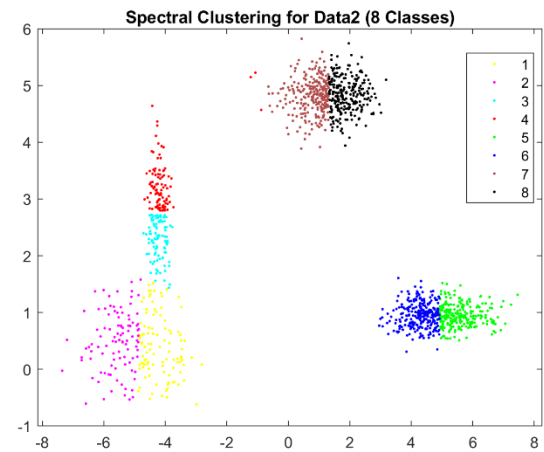
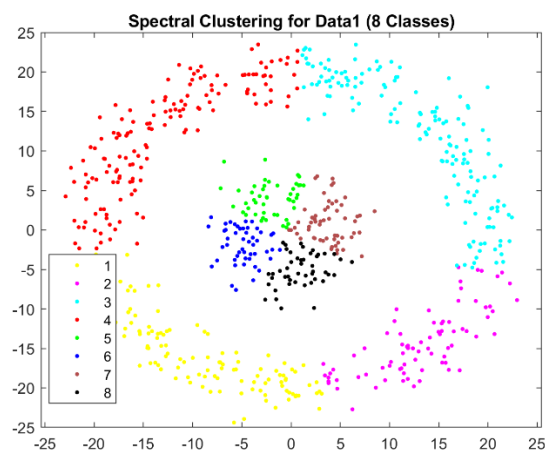
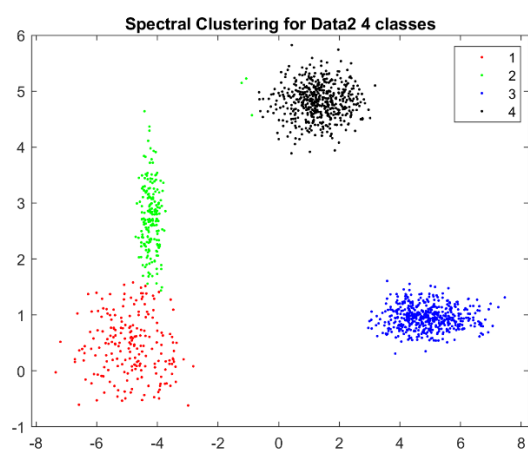
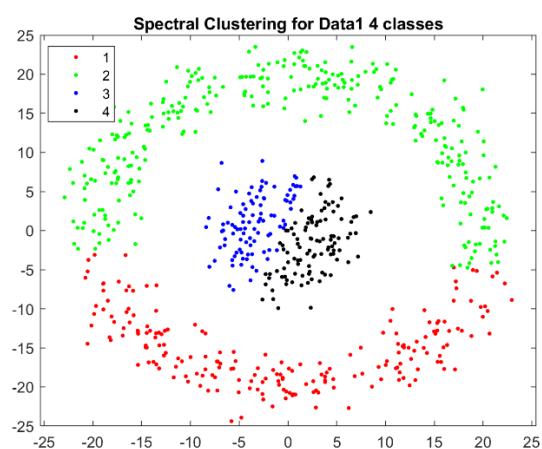
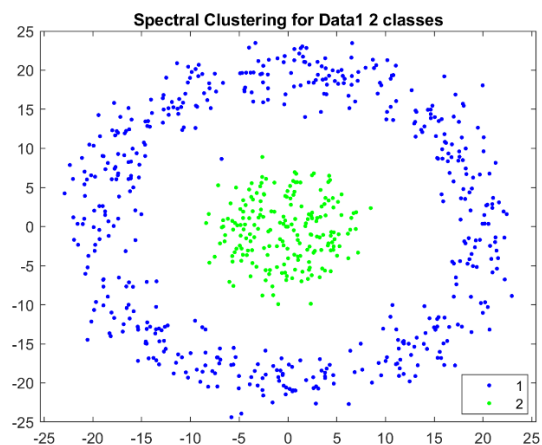


Problem 1





	Data 1	Data 2
K=2	1.3184e+05	1.1523e+04
K=4	6.3884e+04	955.5036
K=8	2.0112e+04	421.4844
Cluster=2	2.0771e+05	8.5295e+03
Cluster=4	1.1963e+05	982.7170
Cluster=8	4.3026e+04	457.4430

These two results seem to have similar cost values in different K and K means method will perform better. However, from the graph it is obvious that for data 1, spectral clustering is better than K means. For data2, K means is more likely to approach the ideal classification.