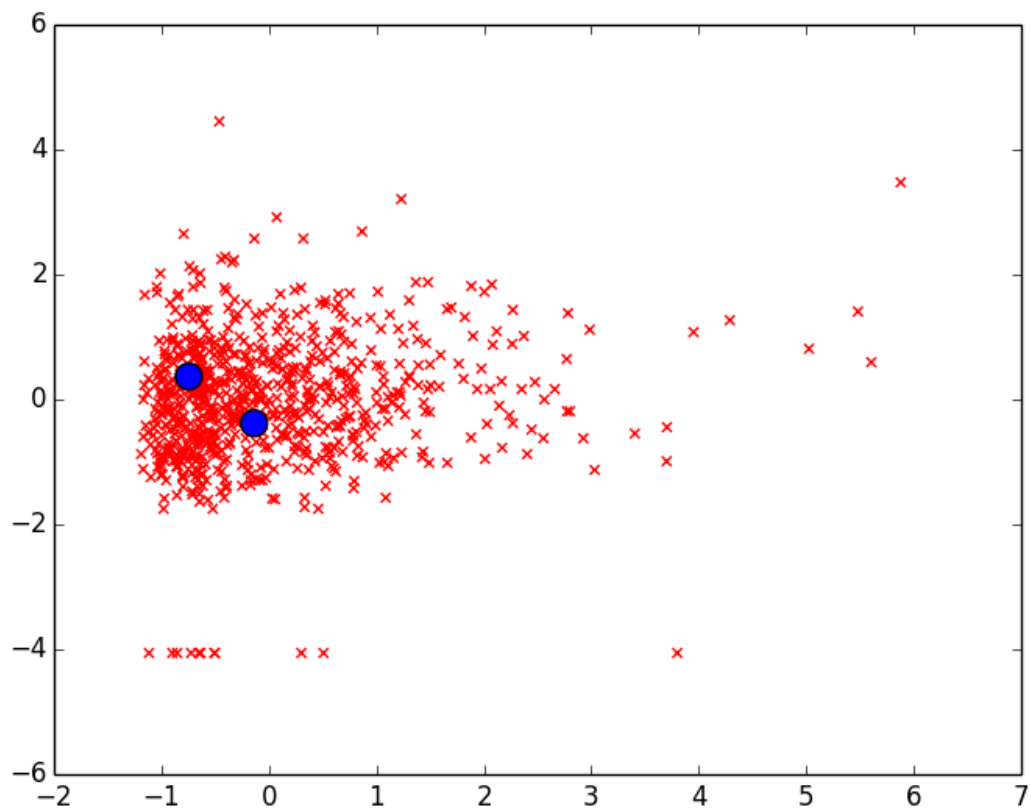


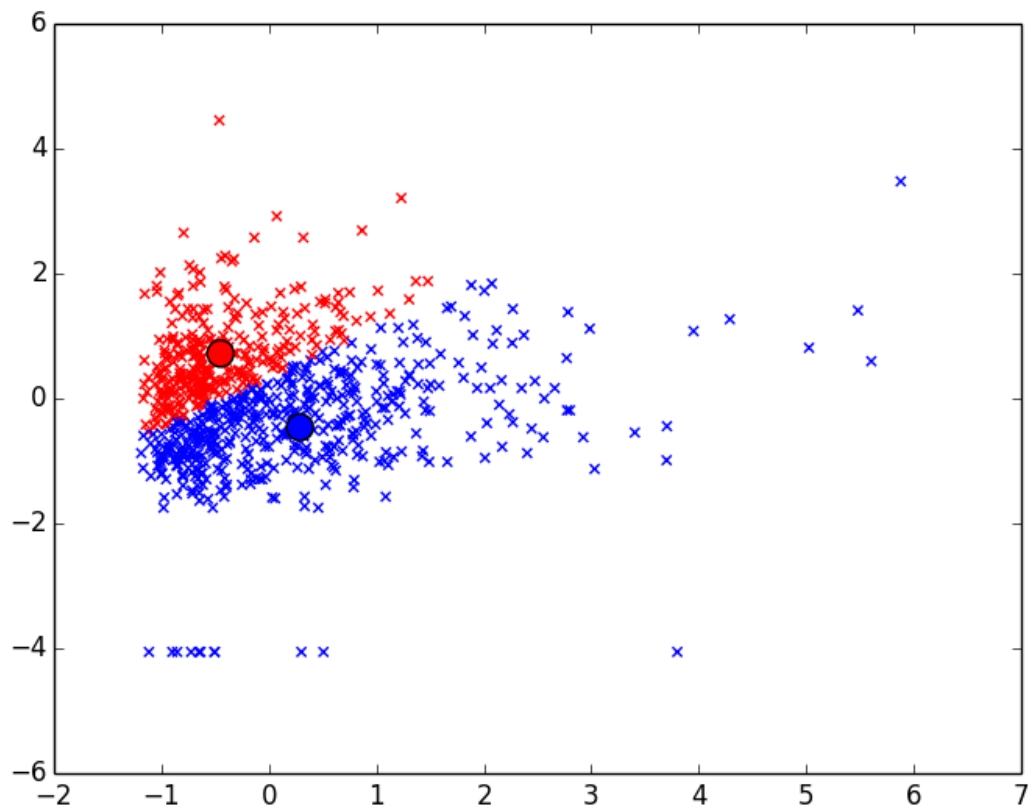
Sharfaraz Salek
CS-383
HW-2

Part 2:

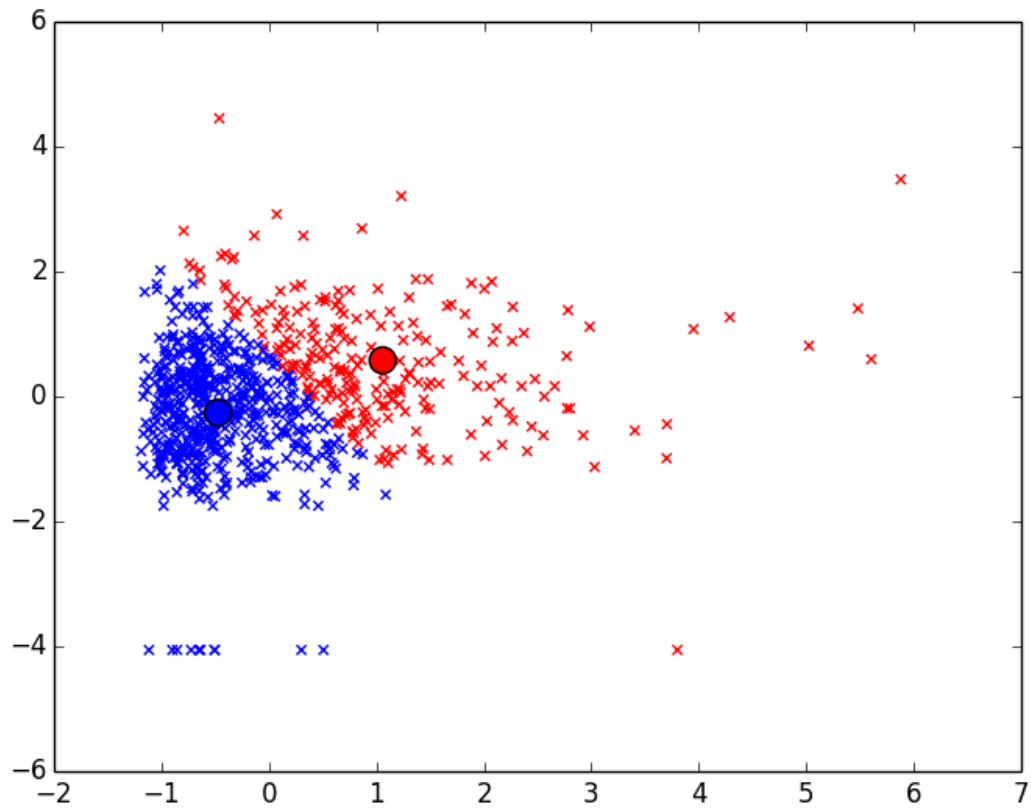
Initial Setup Visualization



Initial Cluster Visualization



Final Cluster Visualization

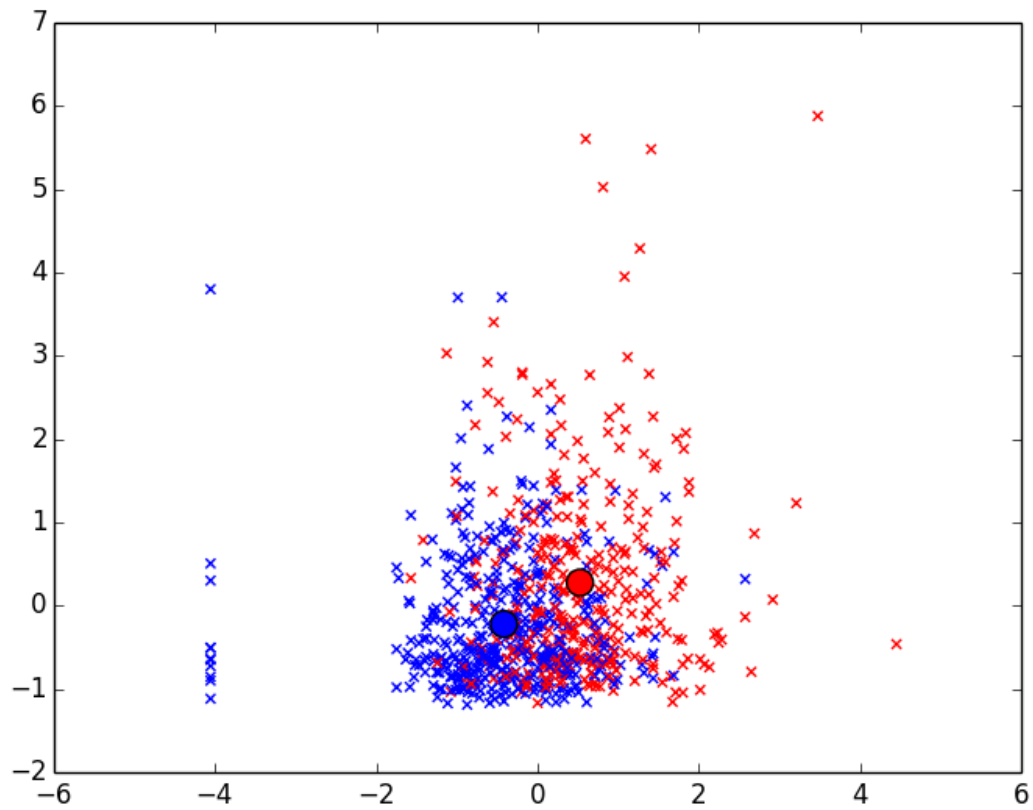


The algorithm went through 36 iterations before reaching the termination condition

Part 3: Purity Value = 0.671875

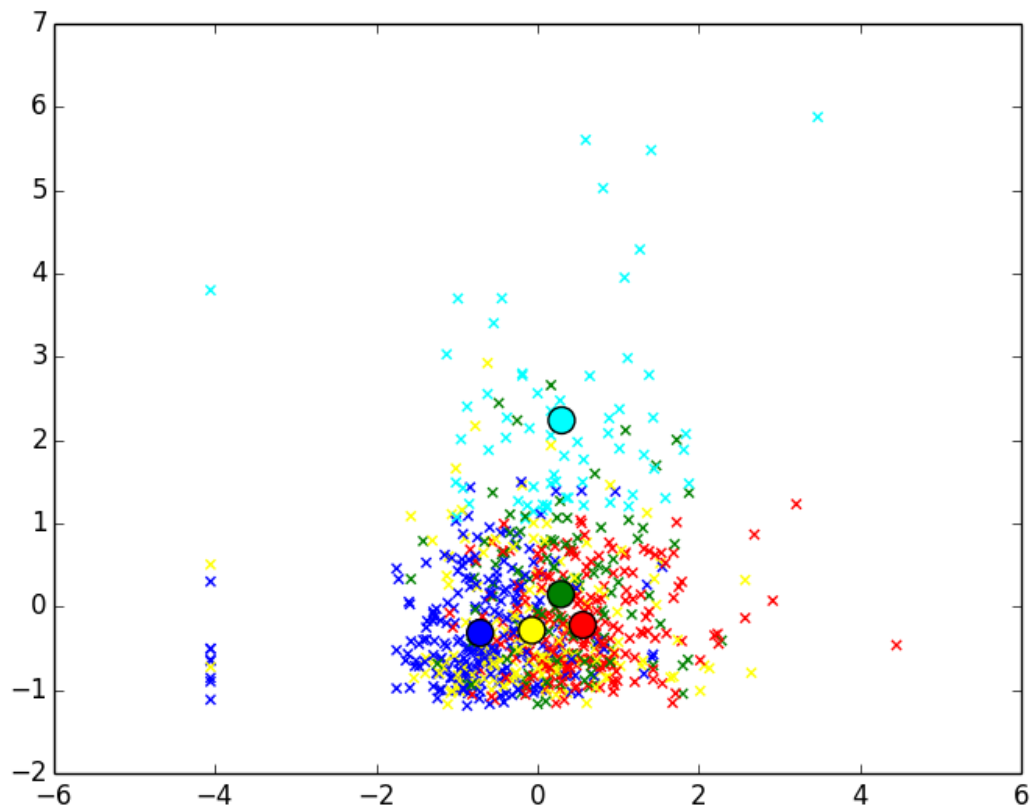
Part 4:

All features, k=2, plot feature 6,7



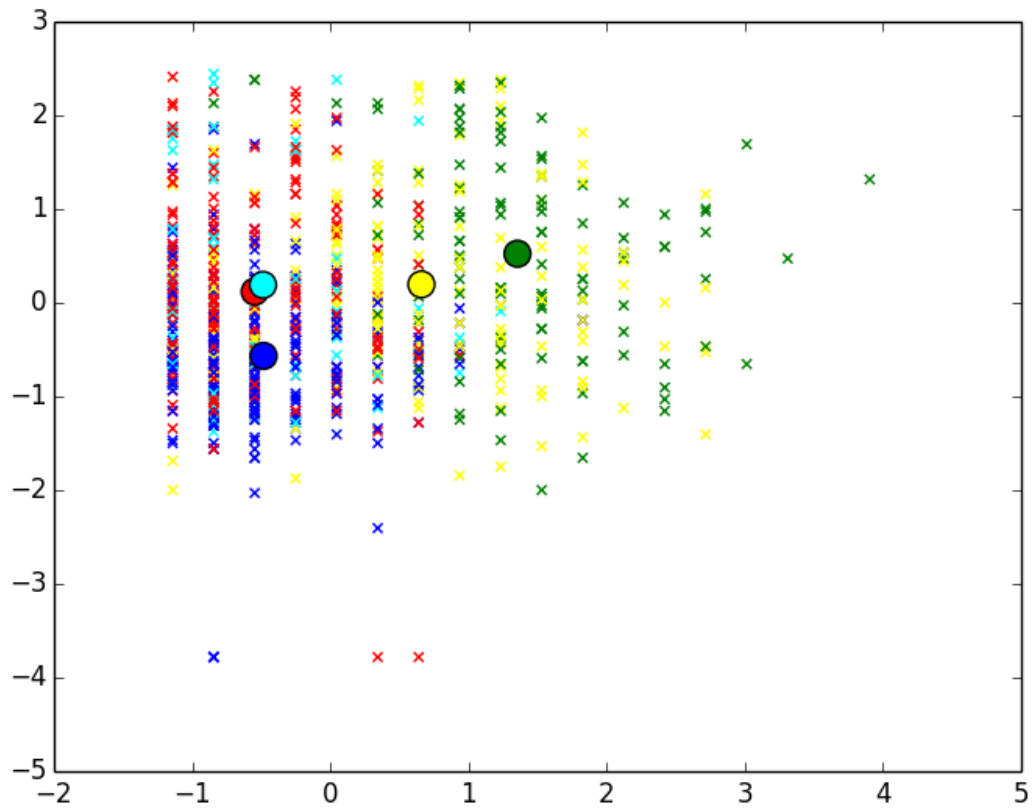
Number of iterations: 18

All features, k=5, plot features 6,7



Number of Iterations: 15

All features, k=5, plot features 1,2



Number of iterations: 15