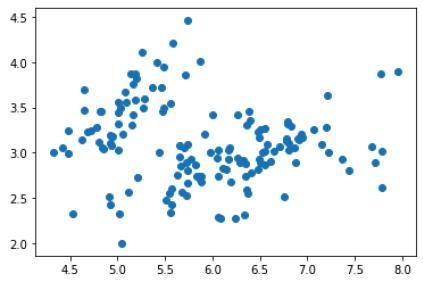
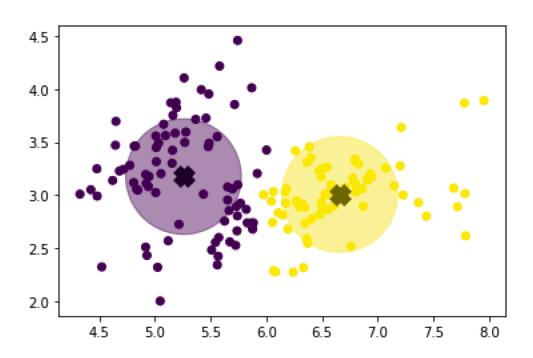
PROBLEM 1 PART 1

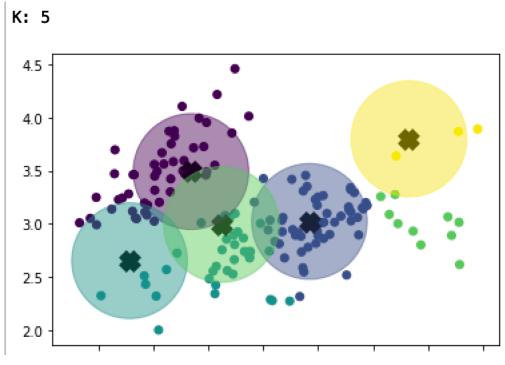


I believe there are 2 clusters. One is found within 0 < x < 6 and 3 < y < 4.5. The other is found within 4.5 < x < 8 and 2 < y < 4.

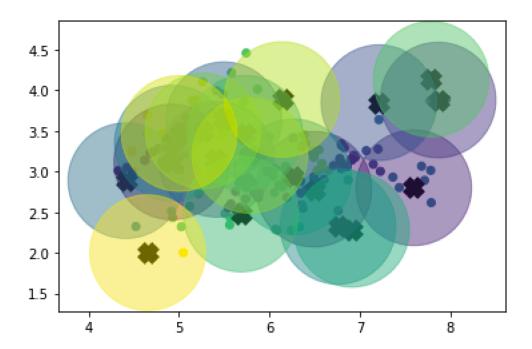
PART 2

K: 2

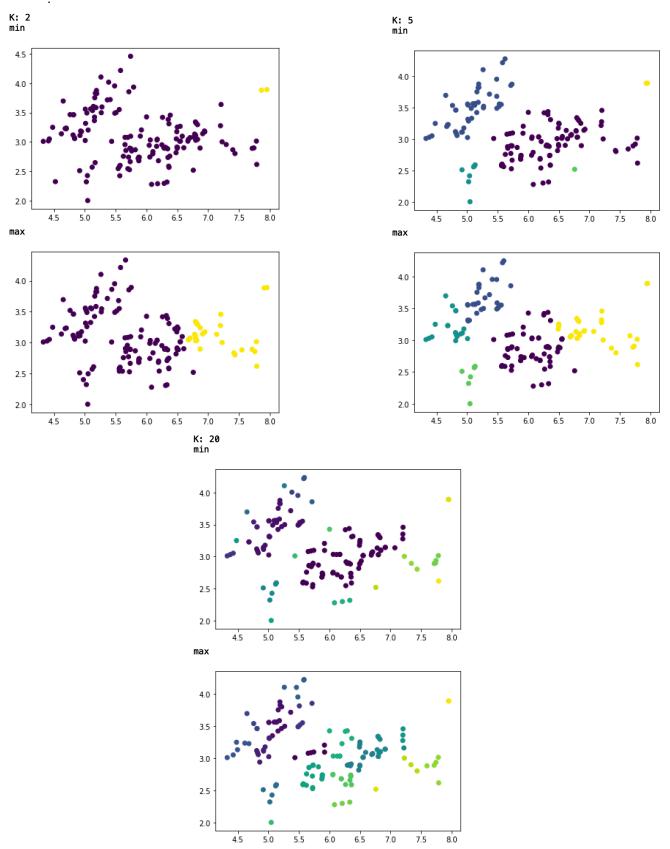








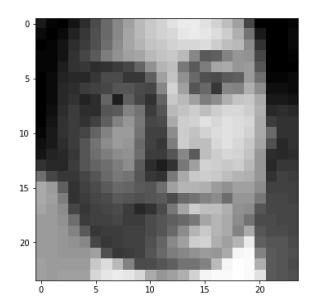


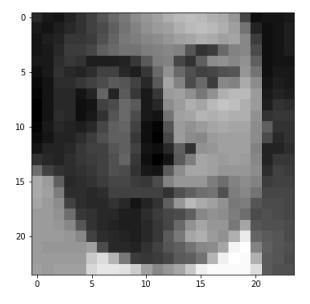


PART 4
The results created by the k-means clustering seemed to be more equally distributed amongst all the points. The results both resemble similar shapes for the clusters.

PROBLEM 2

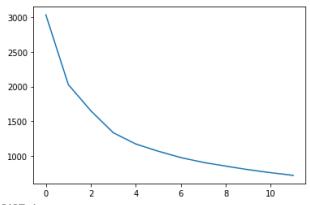
PART 1



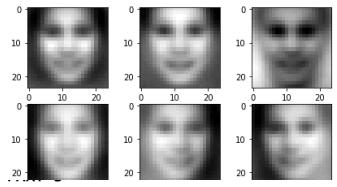


HW 5 Mohamed Kharaev

PART 2 W shape: (4916, 576) V shape: (576, 576) PART 3



PART 4



PART 6

