## **Kmeans Clustering**

0	8	16	20	32	40
0	8	16	20	32	40
0	8	16	20	32	40
0	8	16	20	32	40
4	20	20	30	36	40
4	20	20	30	36	40
4	20	20	30	36	40
4	20	20	30	36	40

- 1. Use K-means to segment the image based on the grey level only. Use K=3. Draw the resultant segmented image by coloring each pixel according to its segment.
- 2. Use K-means to segment the image based on the grey level and pixel location. Use K=3. Draw the resultant segmented image by coloring each pixel according to its segment.
- 3. Suggest an objective function to measure the quality of the segmentation and use this function to compare between the three segmented images.

Exercises 1/1