Image | Cubes Since we have two clusters, but make out the position of cubes, but their orientation / lightly is unflead.

Since the cubes image has a very small number of pipels, Q-3.2 As the number of clusters incrouse, the ii) image becomes more and more similar to the Original image At K=2, we just have 2 clusies and this gives a very excide segmentant ie cupe or no cube (image-1) foreground vs buckground (image 2,3) As k increases to 5, more aspects in the Image becom clear, like orientat of when At K=10, the 1st image is nearly restored while the others give a somewhat 'noisy' segmation of the image components. iii). Some Frages (like image-1) have nearly discrete colours, (and fewer colours), and hence, having less clusters can be preserve the information in the images. But some images (like image-) have continuous and a high spectoum of colours. Hence it becomes difficult to preserve information in These images with less clusters and we need more dusters for preserving image-data