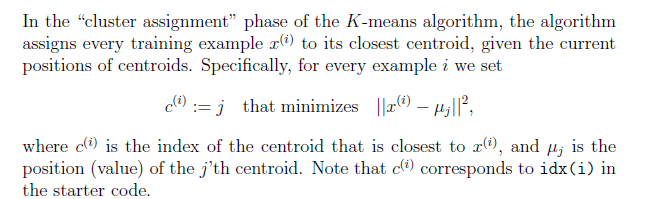
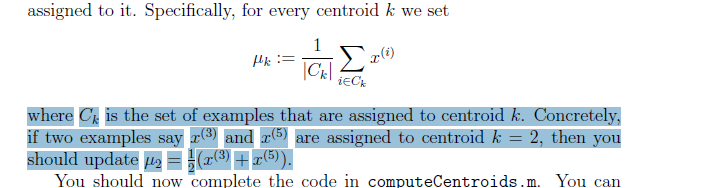


**findClosestCentroids.m :**

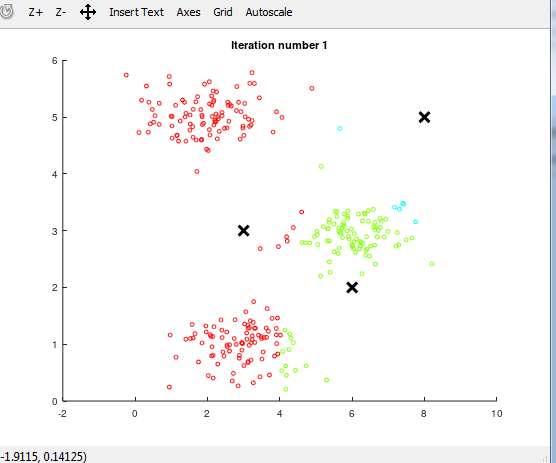


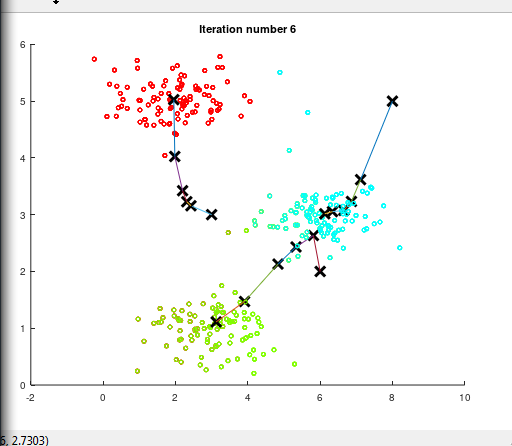


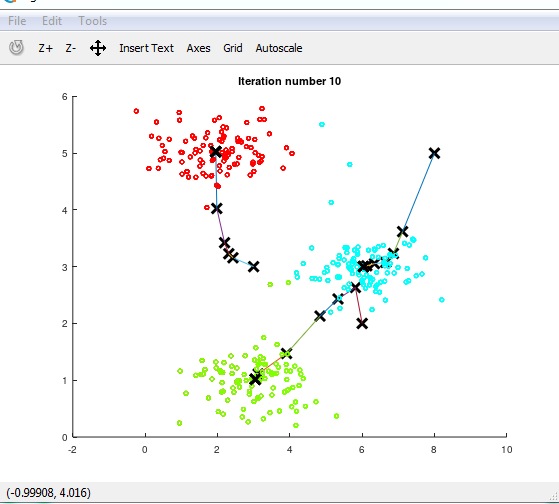
### computeCentroids.m :



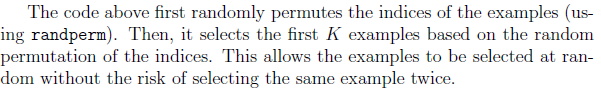
**Observe the Diagram(Shifting of Centroid Point and Also Grouping of Points )**





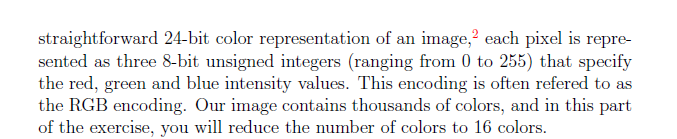


### kMeansInitCentroids.m :



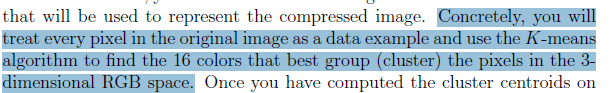
**K-means on pixels**



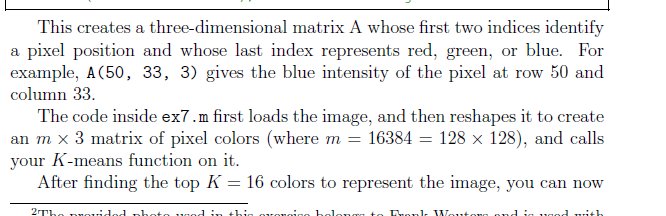


**PIXEL VALUES –**(45,245,105)(Red , Green , Blue – yeh Pixel me kitan red , Green and Blue ka ratio hai )

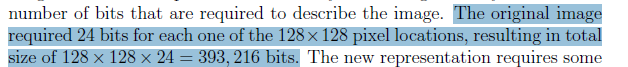
**But Compression me just 16 colors hi use karna hai**

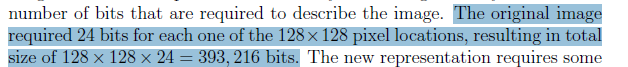


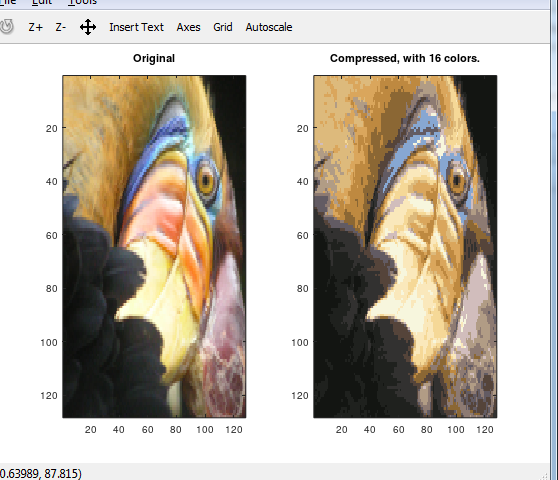
**We have pixel has data points (features) we want to cluster in into 16 Clusters**



**V. Imp**

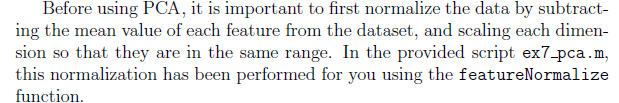






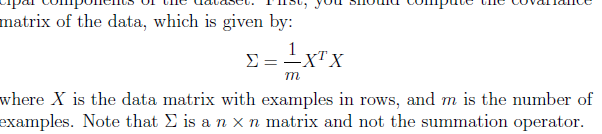
# PCA :

Feature Normalization before PCA :

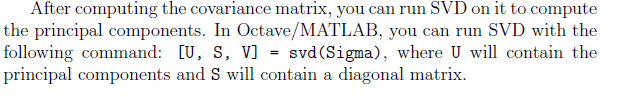


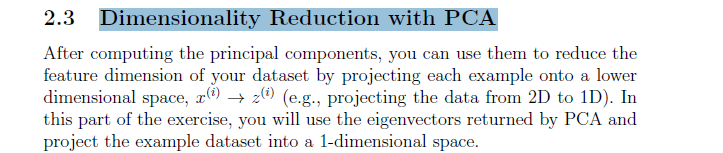
### pca.m :

### Convariance Matrix of Data : (Step 1)

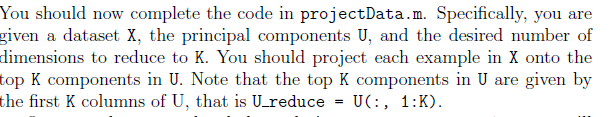


### SVD: (Step 2)

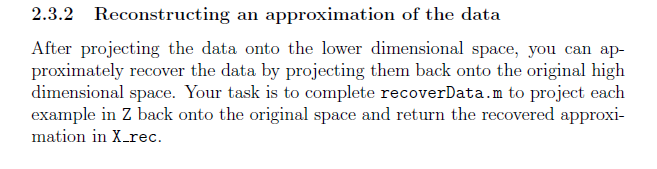


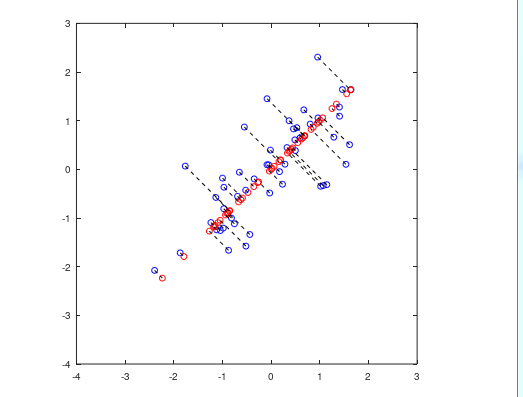


### projectData.m :

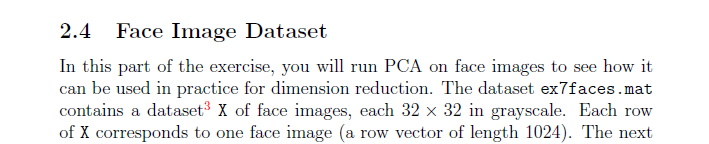


### recoverData.m :

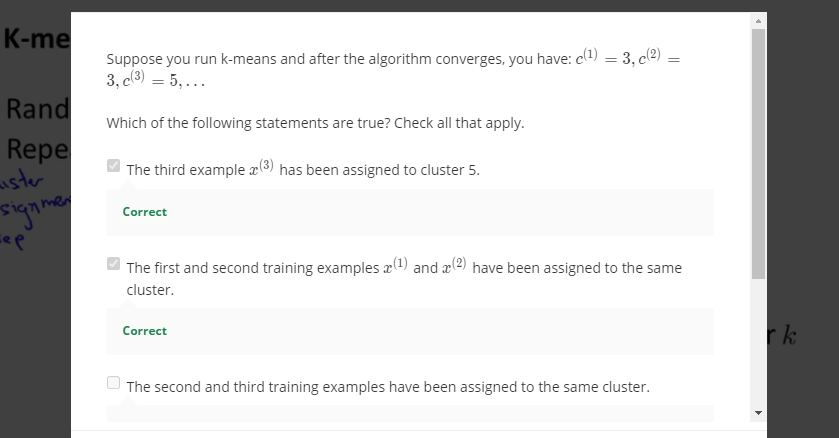


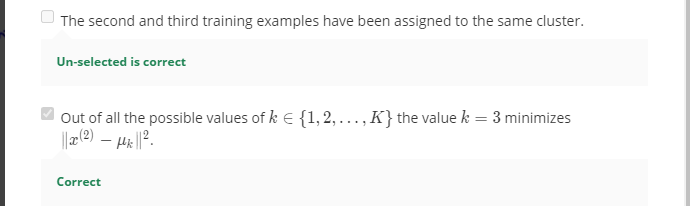


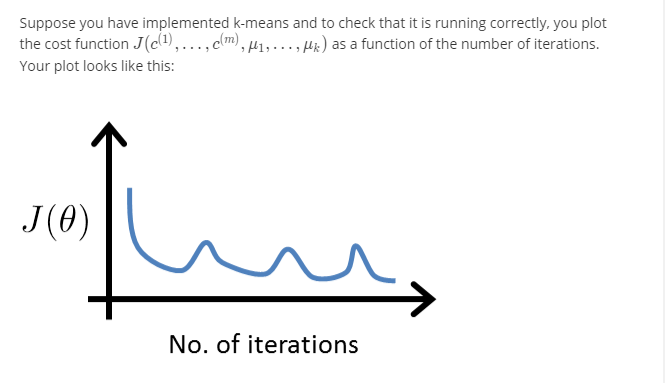
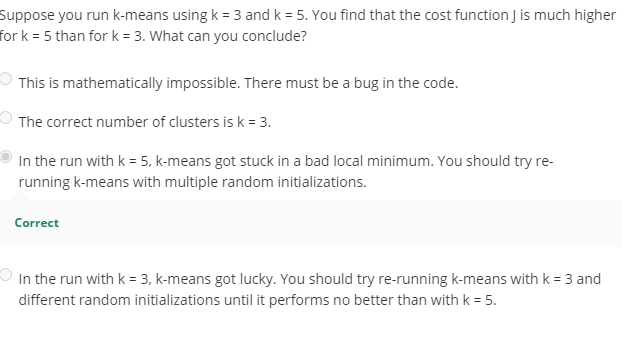
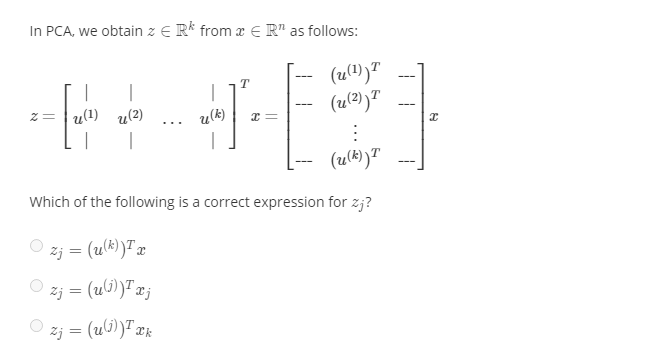
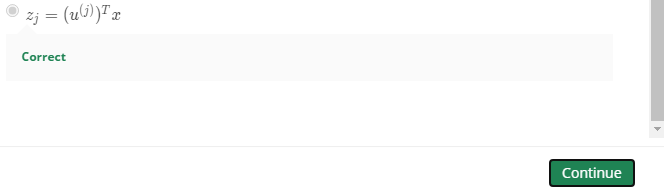
### Not do Exercise Already Coded Exercise :



**Learning from Quiz**

1. 



1. 
2. 
3. 
4. 
5. 