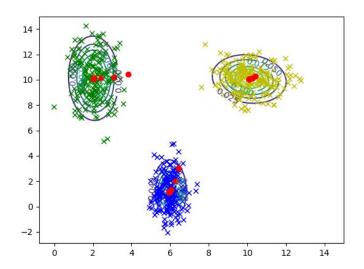
## AI/ML: Lab Assignment - 6

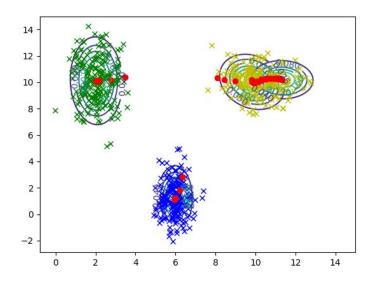
B.Nikhil - 170050099

## Task 1: Implementing EM for GMM

For k = 3 and given data in test.py we get the following plot



For k = 4
More sparse data is splitted into further classes if we increase k.



Changing mu, will just change the cluster centers Changing sigma, will change deviation from mu and will effect for changes in k.