Given the following 6 points with 2 attributes:

A: (1, 3), B: (2, 1), C: (2, 2), D: (3, 5), E: (4, 4), F: (3, 3).

- a) We need to group all 6 points into three clusters. Suppose initially we assign B, D and E as the prototype of the first, second and third cluster respectively. Use the k-Means algorithm to find the three clusters and their respective centroids after the first iteration.
- b) If the initial class label of A, D and E is "C1", the initial class label of B, C and F is "C2", use the k-Means algorithm to find the two clusters and their respective centroids until convergence.