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Task 1:

Q1:

1. Coordinates of the resulting centroids:
   - Centroid0 – (4.0, 6.3)
   - Centroid1 – (5.6, 3.6)
2. The two clusters:
   - Cluster0 – X1, X3, X10
   - Cluster1 – X2, X4, X5, X6, X7, X8, X9

Q2:

1. Coordinates of the resulting centroids:
   - Centroid0 – (2.5, 6.5)
   - Centroid1 – (5.8, 3.9)
2. The two clusters:
   - Cluster0 – X1, X3
   - Cluster1 – X2, X4, X5, X6, X7, X8, X9, X10

Q3:

1. Coordinates of the resulting centroids:
   - Centroid0 – (2.5, 5.0)
   - Centroid1 – (6.8, 4.0)
2. The two clusters:
   - Cluster0 – X1, X2, X3, X4
   - Cluster1 – X5, X6, X7, X8, X9, X10

Q4:

1. Coordinates of the resulting centroids:
   - Centroid0 – (4.9, 3.6)
   - Centroid1 – (5.7, 6.3)
2. The two clusters:
   - Cluster0 – X1, X2, X4, X5, X6, X7, X8
   - Cluster1 – X3, X9, X10

Associated code can be found here.