$$\chi_2 = (07)^{\circ}/_{\circ} 7 = 0$$
 $y_2 = (07)^{\circ}/_{\circ} 9 = 7$ 

So, Centroid value of A cluster is (1,2) Centroid value of B cluster is (0,7)

A contains data points - (1,1), (1,2), (2,2)

B contains data points - (4,4), (4,5), (5,6)

## Iteration 1:

Mean of x and y for cluster A will be,

$$\chi_{A} = \frac{1+1+2}{3}$$
= 1.33

$$y_A = \frac{1+Q+2}{3}$$
  
= 1.667

So, new centroid point for cluster A (1.33, 1.667)
Mean of 2 and y for cluster B will be,

$$y_{B} = \frac{4+5+6}{3}$$

So, new centroid point for cluster B will be (4.33,5)

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