For the given data, compute two clusters using K-means algorithm for dustering where initial cluster centers are (1.0,1.0) and (5,7) Arguned (1.1)

(5.0,7.0).		West .	(1)	(5,7) C ₂	Assyned
Record No	A	B	0.0	7.21	Cı
RI	1.0	2.0	1,12	6.10	C ₁
R2	1.5	4.0	3.61	4.24	C 2
R3	3.0	7.0	4,21	2.50	C ₂
R4	5,0 3.5	5.0	4.72	2.00	Cz
R5 R6	4.5	5.0	5.32	2.50	C2
R7	3.5	ч.5			

cluster 1: R1, R2, R3

christer 2: R4, R5, R6, R7

Step 2: Recompute claster centros

X= (1.0+1.5+3.0)/3 = 1.83 C1 = (x, y) Y= (1.0+2.0+4.0)/3=2.33

New C1 = (1.83, 2.33)

New C2 = (4.13, 5.38)

X=(5.0+3.5+4.5+3.5)/4=4.13 Y= (7.0 + 5.0 + 5.0 + 4.5)/y = 5.38

Iteration 2

Decidas			· .	C2 (4.13, 5.38)	Marion State
Record	A	В	C, C1.83,2.33)	5.62	C ₁
No RI	1.0	1.0	0,47	4.53	
R ₂	1.5	2.0		1.92	C2
R ₃	3.0	4.0	2. \$3	1.89	C2
Ry	5.0	7.0	5,57	0.71	C 2
R5	3.5	5.0	2.63	0.47	C2
RE	4.5	5.0	3.25	0.94	C2
RZ	3.5	4.5	2043		

C1 = +1; +2 ce = R3, R4, R5, R6, R7 Final centres! $C_1 = (1.25, 1.5)$ $C_2 = (3.9, 5.1)$