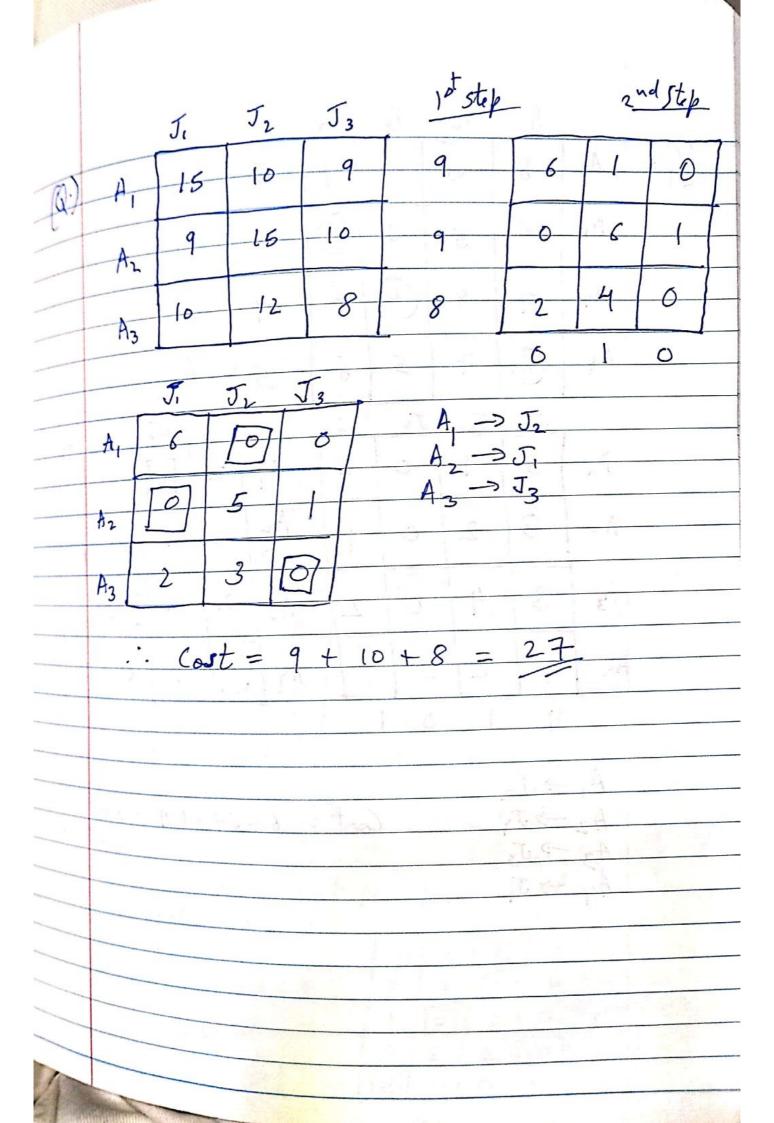
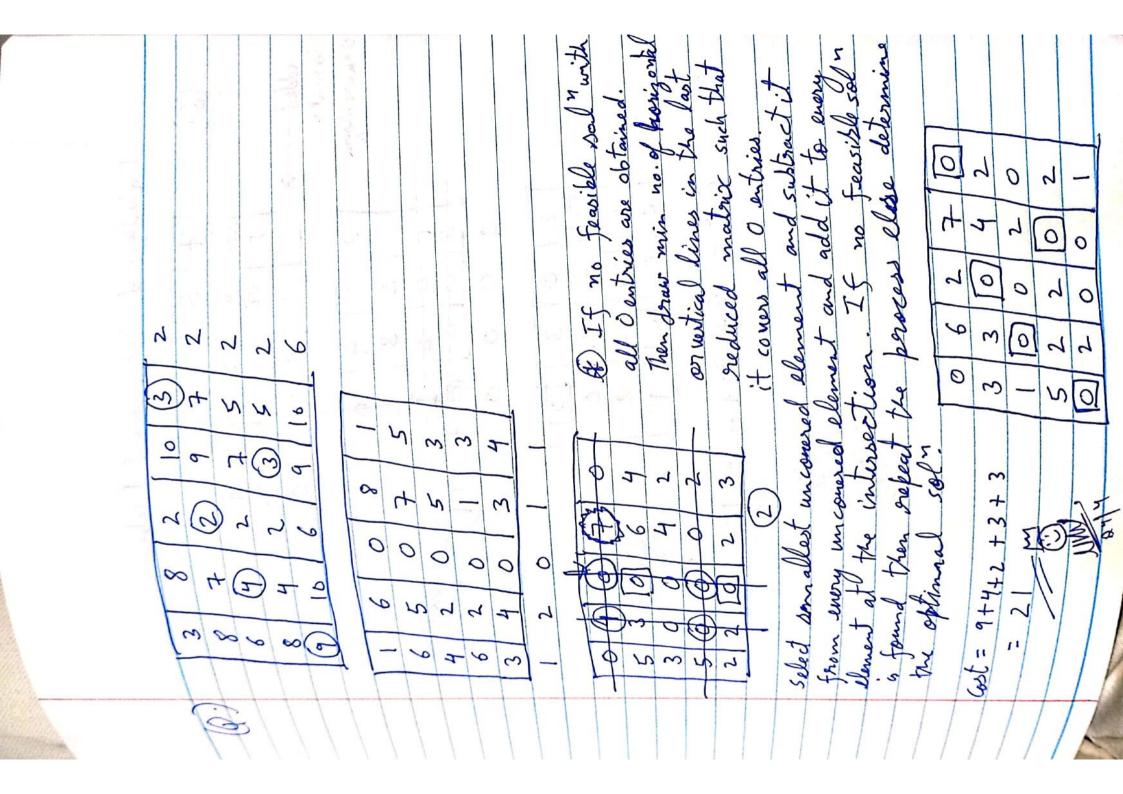
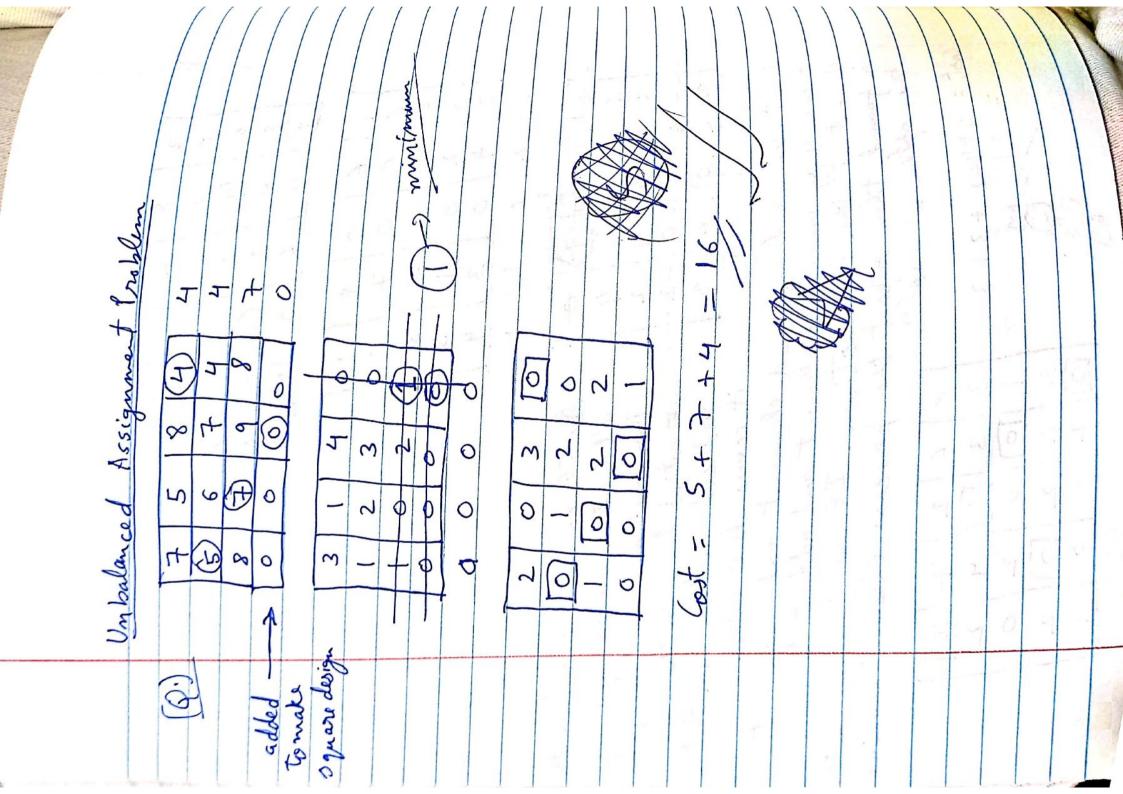
24 04 2023 ASSIGNMENT MODEL It is a special case of transportation model where no. of supply nodes = no. of demand nodes It is an nxn square design where n worker are assigned to n jobs. Objective - to printing minimize the total time to complete a set of jobs or to maximize the skill ratings or total satisfaction of cutoner or minimize the cost of assignments. Assumptions: Each machine or worker is assigned no more than one job. And lack job is assigned to exactly one worker/machine.



11	
A2 > Jy (ast = 6+6+4+9=20	
-> J.	
At 1 2 0 1 At 6 1 0 0	
13 3 4 0 2 A3 2 3 10 1	
A2 2 0 1 R2 2 1 0 0	
102/4/201	
5. Tr Ts Ty (3, Jr 3, 7	
A, 6 7 5 6 5	
A3 7 8 (4) 6 4	
A. 6 5 3 (4) 3	1
(G.) A, 8 (G) 5 7 5	
J. J. J. J. J.	





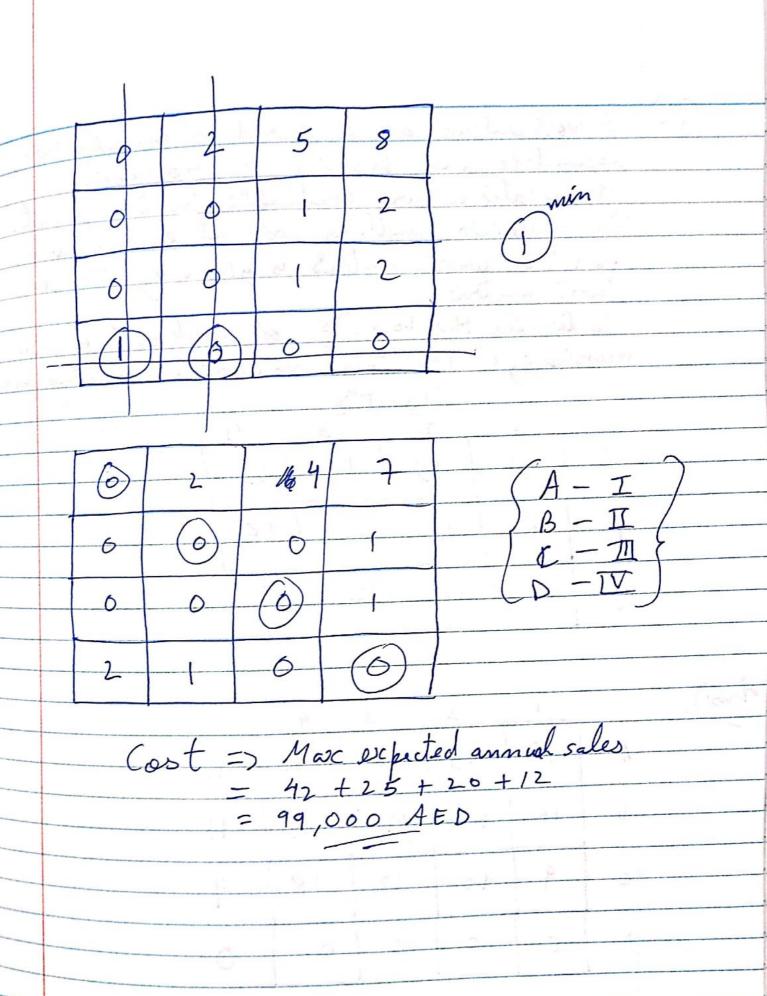
A company has 4 territories open of & 4 salesmen ovailable for the assignment. The territories are not equally such in their sales potential. It is estimated that a typical saleman operating in each territory would bring in the following annual sales. Territory: I II III IV

Annual Sales: 60,000 50,000 40,000 30,000

(AED) 4 salesmen are considered to defer in their ability. It is estimated that working under the same cond "'s their yearly sales would be proportional as follows: Salesmen: A B C D

Propor : 7 5 4 4 The criteria is to maximize the expected total sales using the assignment model.

	Territory (Sales in AED 10000)		
	工(6) 耳(5) 耳(4), 亚((3)	
(Ano)	A 42 -35 -28 -21	-42	
	8 -30 (-25) -20 -15	-2	
	(6)	30	
	(5) (5)	30	
	$D_{(4)} = -24 = -20 = 16 = -12$	-24	
		A. S. A. S.	
7	Values are taken as -ve to convert m	ax to min prod!	
	0 7 14 21		
	0 5 10 15	624	
	0 5 10 15	Tis I	
	0 4 8 12	3.020	
	0 4 8 12	5 1	
	3 6 9		
	2 3		
	2 3 min		



3 work centers are required to manufacture assemble and package a product.
4 locations are available in the plant.
The materials handling cost at each location for the work centers is given by the following cost matrix. Determine the Locat"s of work centers that minimize the total material handling cost. 12

