Lab Sheet-6
Transportation Problems

1. A product is produced by four factories A, B, C, and D. Their production capacities are factory A - 50 units, B - 70 units, C - 30 units, and D - 50 units. These factories supply the product to four stores, demands of which are 25, 35, 105 and 20 units respectively. Unit transport cost in rupees from each factory to each store is given in the table below.

Factories	Stores			
	I	II	III	IV
A	2	4	6	11
B	10	8	7	5
C	13	3	9	12
D	4	6	8	3

   Write a code to determine the extent of deliveries from each of the factories to each of the stores using North-West Corner Rule and Least Cost Method, so that the total production and transportation cost is minimum.

2. Find the basic feasible solution using the Least cost method.

	I	II	III	IV	V	Available
A	4	3	1	2	6	80
B	5	2	3	4	5	60
C	3	5	6	3	2	40
D	2	4	4	5	3	20
Required	60	60	30	40	10	200 (Total)

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