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## **MP-1 TUTORIAL-5**

1. Develop a python program to demonstrate the Initial Basic Solution in Transportation problem using NW method in Linear Programming (Steppingstone).

## **QUESTION:**

The Amulya Milk Company has three plants located throughout a state with production capacity 50, 75 and 25 gallons. Each day the firm must furnish its four retail shops  $R_1$ ,  $R_2$ ,  $R_3$ &  $R_4$  with at least 20, 20, 50, and 60 gallons respectively. The transportation costs (in Rs.) are given below.

Plant	Retail Shop				Supply
	$R_1$	$R_2$	$R_3$	R <sub>4</sub>	Supply
$P_1$	3	5	7	6	50
$P_2$	2	5	8	2	75
$P_3$	3	6	9	2	25
emand	20	20	50	60	

The economic problem is to distribute the avaiSESSIONle product to different retail shops in such a way so that the total transportation cost is minimum.

