**MP-1 TUTORIAL-5**

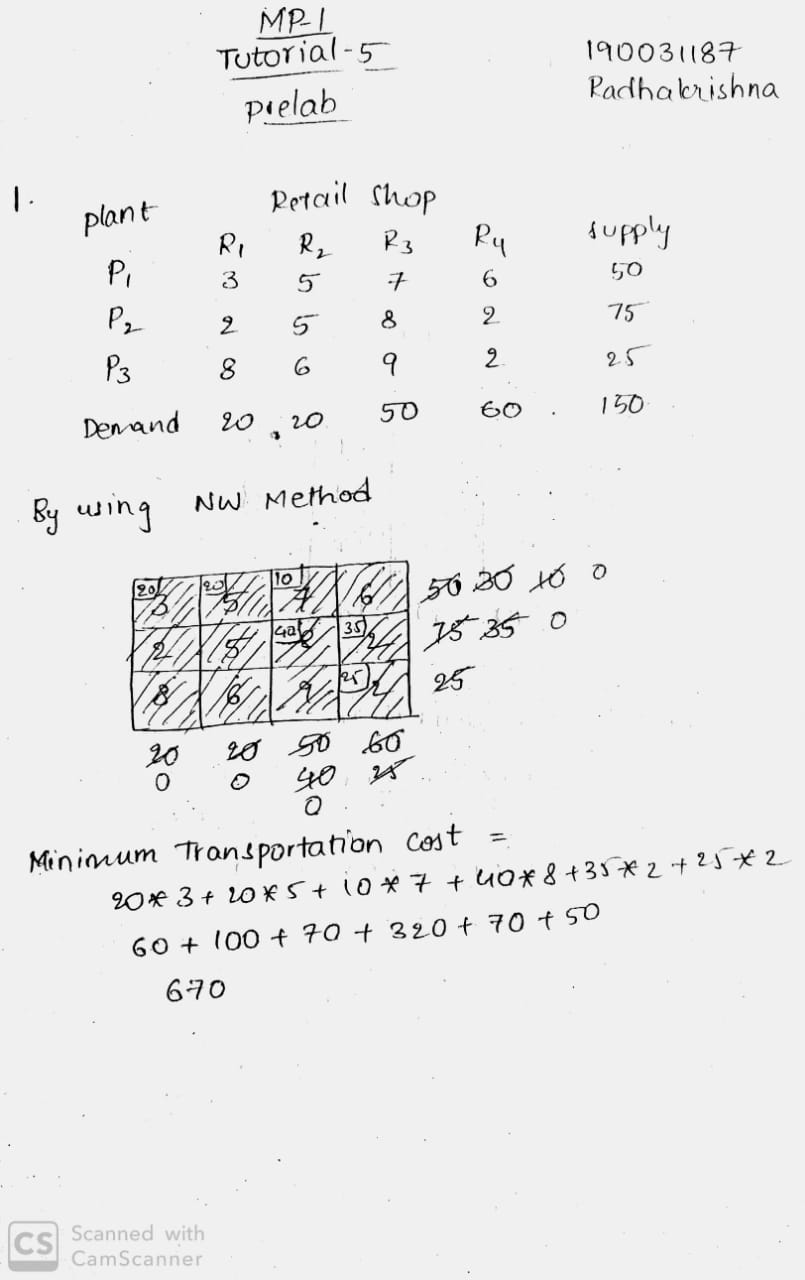
1. Develop a python program to demonstrate the Initial Basic Solution in Transportation problem using NW method in Linear Programming (Steppingstone).

**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 R1, R2, R3& R4 with at least 20, 20, 50, and 60 gallons respectively. The transportation costs (in Rs.) are given below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Plant** | **Retail Shop** | | | | **Supply** |
| **R1** | **R2** | **R3** | **R4** |
| **P1** | 3 | 5 | 7 | 6 | 50 |
| **P2** | 2 | 5 | 8 | 2 | 75 |
| **P3** | 3 | 6 | 9 | 2 | 25 |
| **Demand** | 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.

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