National Institute of Technology Durgapur
Dept. of Computer Science & Engineering
Assignment 3
CSS752: Modeling and Simulation Lab
Transportation Problem using Vogel's Approximation Method (VAM)

Problem 1:

Formulate the following transportation problem as an LPP model.

	D_1	D_2	D_3	D_4	Supply
O_1	6	4	1	5	14
O_2	8	9	2	7	16
O_3	4	3	6	2	5
Demand	6	10	10	4	

Also determine an initial basic feasible solution of this TP using VAM methd.

Problem 2:

Formulate the following transportation problem as an LPP model.

	1	2	3	4	5	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	

Find the IBFS of the transportation problem by VAM. Also find the optimal transportation plan.