Name: Antiel Sweshoram Toesman Toesman rouva	Requerements = 700 +900 +1800 = 3400
Q. A languary has a current shapping.  Schedule, which is being questioned by the management as to wheter by the management as to wheter or not it is optimal. The firm has 3 padories and 4 warehouse the necessary adata in torms of transportation cost in 2 per unit forom a pactory to a destination and Flap and w required.  Thankouse W, W2 W3 W4 Requirements.  Gastory  Jactory  Jactory  J. 19 30 50 10 720  J. 40 30 40 60 900	Capacity = 500 +800 + 700 + 1400  = 3400  Theration T  W. & W_1 W_2 W_3 W_4 Req. Penality  \$\frac{1}{3}\$, \$\frac{19}{30}\$, \$\frac{50}{60}\$, \$\frac{90}{900}\$, \$\frac{10}{10}\$  \$\frac{1}{3}\$, \$\frac{10}{30}\$, \$\frac{40}{60}\$, \$\frac{900}{10}\$, \$\frac{1}{3}\$  Apocity 500 800 700  400  \frac{3400}{900}\$, \$\frac{1}{3}\$  Penalties 21 22 10 10
12 40 30 40 60 400 1 13 40 08 70 20 1800 Capacity 500 800 700 1400	Iteration II
Solve For a basic feasible shipping Schedule in terms of lowest possible shipping clost  Sol. As & Capacity = & Requirements, the above problem is balanced. We will use Vagels Approximation Method to Solve the above problem. Requirements = 700 +900 +1800 = 3+008	$WF$ $W_1$ $W_2$ $W_3$ $W_4$ Reg. Penalties $ \begin{array}{cccccccccccccccccccccccccccccccccc$
lopacity = 500 +800 + 700 + 1400 = 340c	

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Itaration II		
W.J. Wy Wy Was Hay Reg leno	His	W 9 W1 W2 W3 W4 Requirem 9, 19 30 50 1000 700
9, 50 10 20 40		(400 200
9 <sub>3</sub> 70 20 <sup>1000</sup> 1000 50		92 40 30 40 60 900 93 40 08 70 20 1800
Reparity 700 1400 2100 -		Cap 500 800 700 1400
Penattles 10 10		Octol
Iteration TV		Nast = 19×500 + 10×200 + 40×700 +60 200 + 8×300 + 20×1000
WF W2 W4 Required Pen	altiu	= 9500 + 2000 + 2800 + 12000 + 640
F <sub>2</sub> 40 606 9000 -		+20,000 = 52,700
Raparity 700 200 1900 -		
Pentalties		
Iteration I	100 E1	
W.J W2 W4 Reg P	les a	
J_ 40 60 9000 -	Pital	
Map 700 200 1900 -		
Republies	2000	