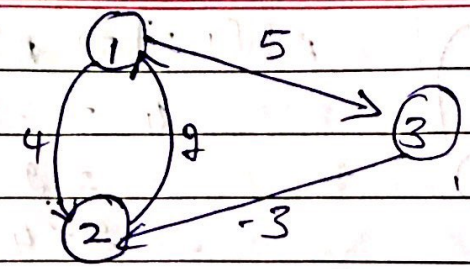
CHIRANJEEV1
1BM19CS403

ASSIGNMENT-I



A^0 =

	1	2	3
1	0	4	5
2	2	0	∞
3	∞	-3	0

A^1 =

	1	2	3
1	0	4	5
2	2	0	7
3	∞	-3	0

$A^0[2,2] \Rightarrow A^0[2,1] + A^0[1,2]$

$0 \Rightarrow 2+4$

$\Rightarrow 6 > 0$

$A^0[2,3] \Rightarrow A^0[2,1] + A^0[1,3]$

$\infty = 2+5 = 7$

$7 > \infty$

replace 7 with ∞

A^2 =

	1	2	3
1	0	4	5
2	2	0	7
3	-1	-3	0

$A^1[1,3] \Rightarrow A^1[1,2] + A^1[2,3]$

$5 = 4+7 = 11$

No replace

$A^1[3,1] \Rightarrow A^1[2,1] + A^1[3,2]$

$= 2 + (-3)$

$= -1$

Scanned with CamScanner

$$A^3 = \begin{array}{c} \\ 1 \\ 2 \\ 3 \end{array} \begin{array}{c} \begin{array}{ccc} 1 & 2 & 3 \end{array} \\ \begin{bmatrix} 0 & 2 & 5 \\ 2 & 0 & 7 \\ -1 & -3 & 0 \end{bmatrix} \end{array}$$

$A^2[1,2] \Rightarrow A^3[3,2] + A^2[1,3]$

$4 = -3 + 5$

$= 2$

$\therefore 2 < 4$

replace 2 with 4

$A^2[2,1] \Rightarrow A^2[2,3] + A^2[3,1]$

$2 = 7 - 1 = 6$

No replace.

Scanned with CamScanner