

MATHS SCRIBED NOTES

16-11-2022

STUDENT ID's :

202212036

202212037

202212038

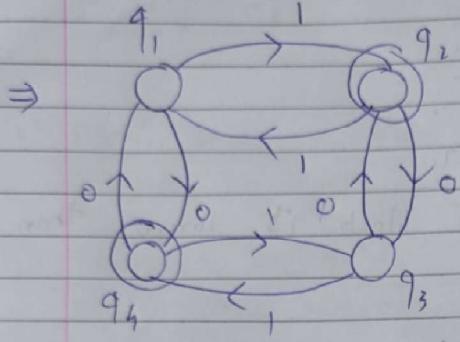
202212039

202212040

- **FLOYD WARSHALL ALGORITHM**

FORMULA :

$$DPT_k [i,j] = DPT_{k-1} [i,j] + (DPT_{k-1} [i,k]) . (DPT_{k-1} [k,k])^* . (DPT_{k-1} [k,j])$$



DPT = Dynamic Programming Table

	q_1	q_2	q_3	q_4
q_1	ϵ	1	\emptyset	0
q_2	1	ϵ	0	\emptyset
q_3	\emptyset	0	ϵ	1
q_4	0	\emptyset	1	ϵ

(q_1) intermediate

	q_1	q_2	q_3	q_4
q_1	ϵ	1	\emptyset	0
q_2	1	$11 + \epsilon$	0	10
q_3	\emptyset	0	ϵ	1
q_4	0	01	1	$\epsilon + 00$