

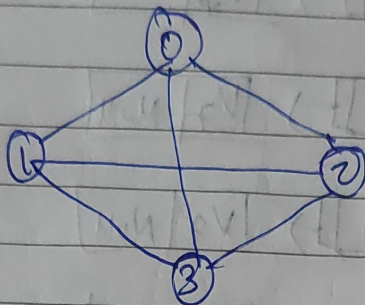
# ASSIGNMENT 2A

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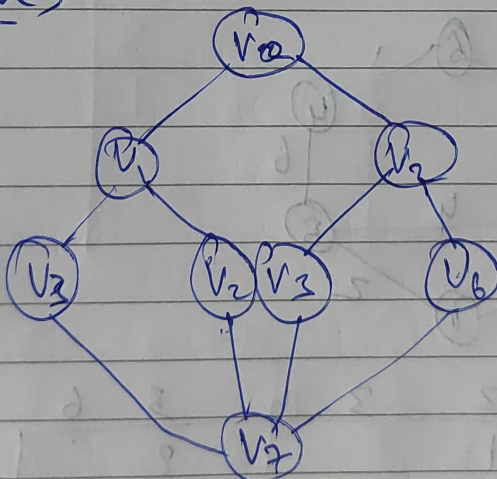
## ADJACENCY LIST

1. Problem - Write adjacency list representation of Graph.



0		→	1	→	2	→	3	Null
1		→	0	→	2	→	3	Null
2		→	0	→	1	→	3	Null
3		→	0	→	1	→	2	Null

2. Problem →



→  $v_0 \rightarrow \square \rightarrow [v_1] \rightarrow [v_2] \rightarrow \text{Null}$

$v_1 \rightarrow \square \rightarrow [v_0] \rightarrow [v_3] \rightarrow [v_4] \rightarrow \text{Null}$

$V_2 \rightarrow V_1 \rightarrow V_5 \rightarrow V_6 \text{ Null}$

$V_3 \rightarrow V_6 \rightarrow V_7 \text{ Null}$

$V_4 \rightarrow V_6 \rightarrow V_7 \text{ Null}$

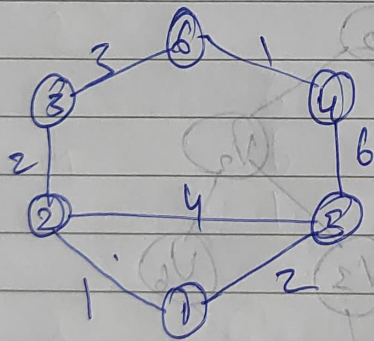
$V_5 \rightarrow V_1 \rightarrow V_7 \text{ Null}$

$V_6 \rightarrow V_1 \rightarrow V_7 \text{ Null}$

$V_6 \rightarrow V_2 \rightarrow V_7 \text{ Null}$

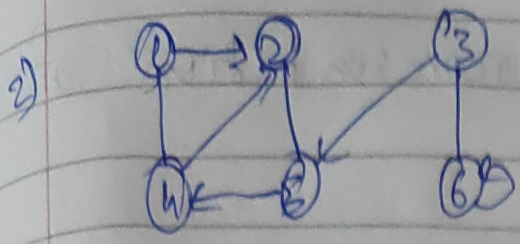
$V_7 \rightarrow V_3 \rightarrow V_4 \rightarrow V_5 \rightarrow V_6 \text{ Null}$

Qus 3  $\Rightarrow$  Adjacency matrix representation of graph



	1	2	3	4	5	6
1		2	3	1		
2	2		4			
3	3	4		6	2	
4	1		6		3	
5		1	2	3		1
6					3	





Ans →

	1	2	3	4	5	6
1	0	1	0	1	0	0
2	0	0	0	0	1	0
3	0	0	0	0	1	1
4	0	1	0	0	0	0
5	0	0	0	1	0	0
6	0	0	0	0	0	1

	1	2	3	4	5	6
1	0	1	0	1	0	0
2	0	0	0	0	1	0
3	0	0	0	0	1	1
4	0	1	0	0	0	0
5	0	0	0	1	0	0
6	0	0	0	0	0	1

