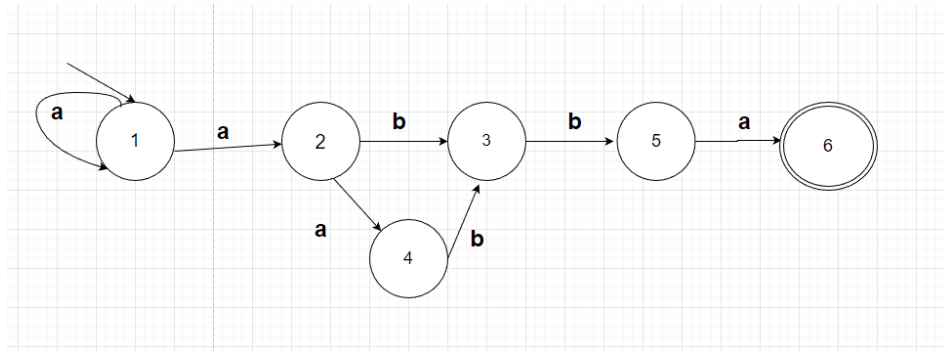


Lab #3

Construct an equivalent deterministic finite automaton for the given non-deterministic finite automaton with 6 states.

$A = \{ a, b \}$, $V = \{ 1, 2, 3, 4, 5, 6, 7 \}$



Initial state: $H=\{1\}$, **Final states:** $F=\{6\}$

Transitions:

$ra = \{ (1, 1), (1, 2), (2, 4), (5, 6) \}$

$rb = \{ (2,3), (3, 5), (4, 3) \}$

Construct the deterministic automaton: :

$G(M, x) , M$	a	b	L		Rename the states	a	b
1	12	-	0		1	2	7
12	12 4	3	0		2	3	4
12 4	12	3	0		3	2	4
3	-	5	0		4	7	5
5	6	-	0		5	6	7
6	-	-	1		6	7	7
-	-	-	0		7	7	7

