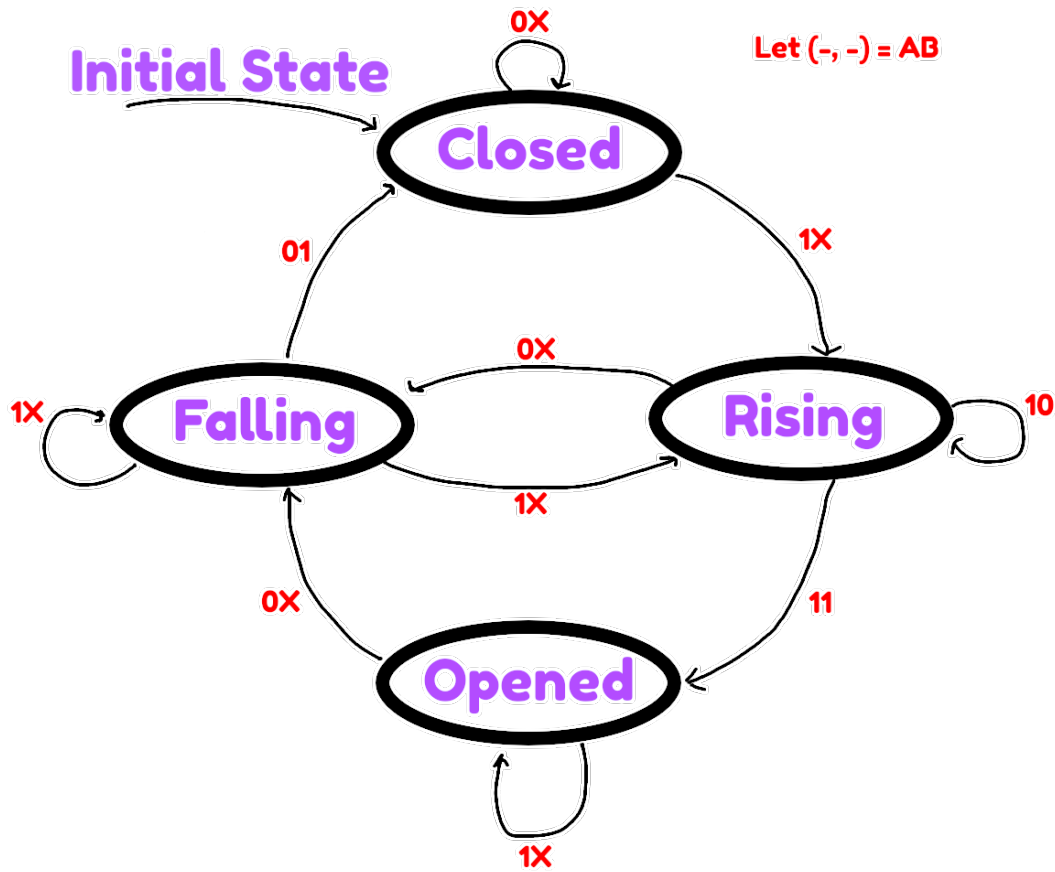


## Lab 5



State Table		
Previous State	Input $(A, B)$	Next State
Closed	$(0, X)$	Closed
Closed	$(1, X)$	Rising
Rising	$(1, 0)$	Rising
Rising	$(0, X)$	Falling
Rising	$(1, 1)$	Opened
Opened	$(1, X)$	Opened
Opened	$(0, X)$	Falling
Falling	$(0, 0)$	Falling
Falling	$(1, X)$	Rising
Falling	$(0, 1)$	Closed

Closed  $\rightarrow 00$

Rising  $\rightarrow 10$

Opened  $\rightarrow 11$

Falling  $\rightarrow 01$

Truth Table					
F1	F0	A	B	newF1	newF0
0	0	0	X	0	0
0	0	1	X	1	0
1	0	1	0	1	0
1	0	0	X	0	1
1	0	1	1	1	1
1	1	1	X	1	1
1	1	0	X	0	1
0	1	0	0	0	1
0	1	1	X	1	0
0	1	0	1	0	0

Output Logic			
F1	F0	R	L
0	0	0	0
1	0	1	0
1	1	0	0
0	1	0	1