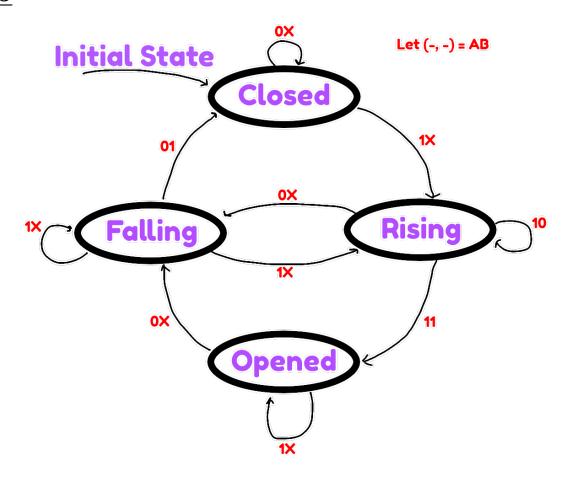
<u>Lab 5</u>



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 $\rightarrow 00$

 $\mathrm{Rising} \to 10$

 $\mathrm{Opened} \to 11$

Falling $\rightarrow 01$

Truth Table							
F1	F0	A	В	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			