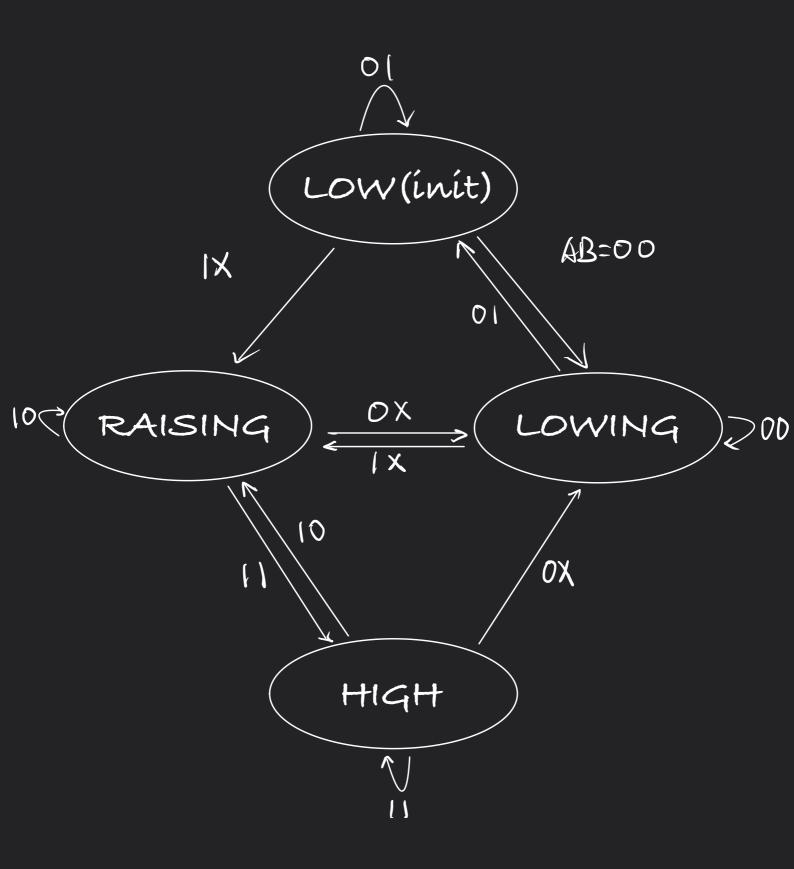
Name: Yitan Ju

Student Num. 1009920828



State Table(Part 1)

Present State	A	В	NEXT STATE
LOW	0	0	LOWING
LOW	0	1	LOW
LOW	1	0	RAISING
LOW	1	1	RAISING
RAISING	0	0	LOWING
RAISING	0	1	LOWING
RAISING	1	0	RAISING
RAISING	1	1	HIGH
HIGH	0	0	LOWING
HIGH	0	1	LOWING
HIGH	1	0	RAISING
HIGH	1	1	HIGH
LOWING	0	0	LOWING
LOWING	0	1	LOW
LOWING	1	0	RAISING
LOWING	1	1	RAISING

we need 2 filp-flop ([1/09247=2)

LOW= 00

RALSING = 0 1

HIGH= 10

LOWING = 1 1

Truth Table(Part 1)						
F2	F1	A	В	new F2	new F1	
0	0	0	0	1	1	
0	0	0	1	0	0	
0	0	1	0	0	1	
0	0	1	1	0	1	
0	1	0	0	1	1	
0	1	0	1	1	1	
0	1	1	0	0	1	
0	1	1	1	1	0	
1	0	0	0	1	1	
1	0	0	1	1	1	
1	0	1	0	0	1	
1	0	1	1	1	0	
1	1	0	0	1	1	
1	1	0	1	0	0	
1	1	1	0	0	1	
1	1	1	1	0	1	

Full Output Truth Table(Part 2)							
F2	F1	L	R				
0	0	0	0				
0	1	0	1				
1	0	0	0				
1	1	1	0				

