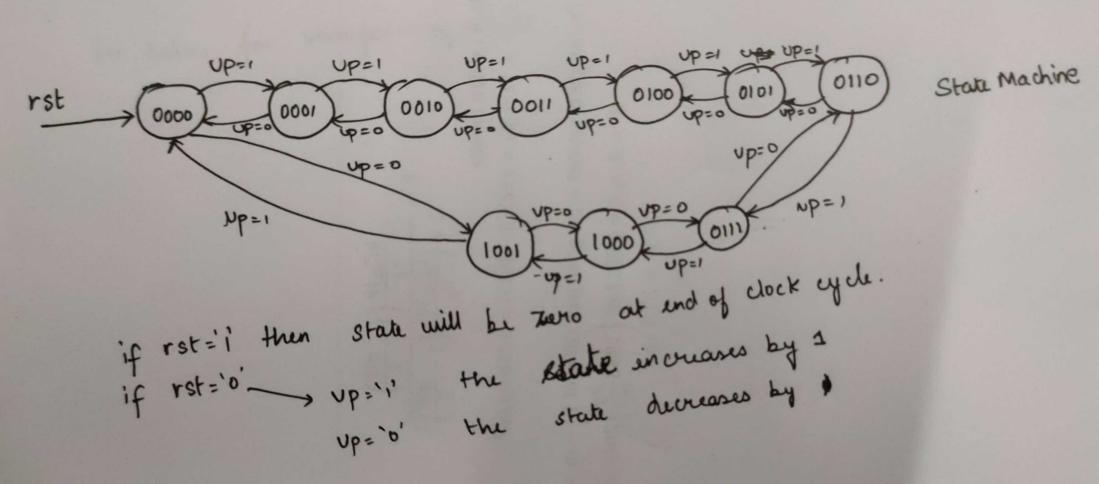
CS232 Labs Q1 Mod 10 up-DownCounter



How I achieve above state machite:

The first one which is rensitive to clock and after every clock cycle, checks for the conditions given above and accordingly updates value of new state. The second process updates the state and count signals to give

the appropriate signals as output.

Su below for wantform of output.

/mod10updown/clk /mod10updown/rst	0																	
/mod10updown/up	i																	
□	0111	UUUU	0000	0001	0010		0011	0100	0101	0110	0111		1000	1001	0000	0001	0000	1001
- (2)	1	_										i						
((1)	1			=		-					\vdash		_					