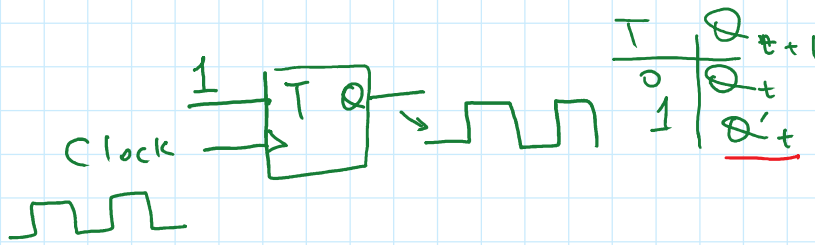


Counters- Asynchronous

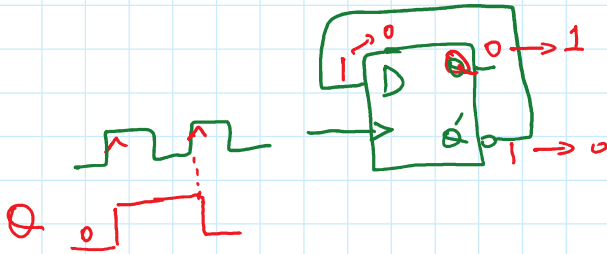
Tuesday, May 19, 2020 4:02 PM

سنگیننده غیر عمودیک

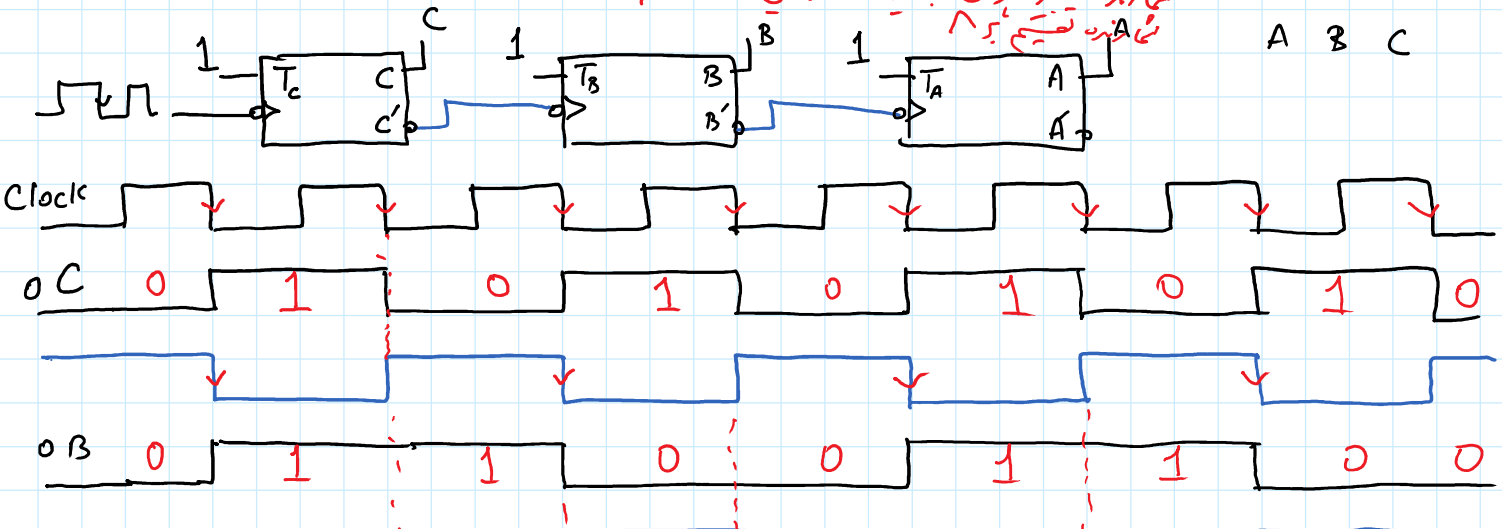
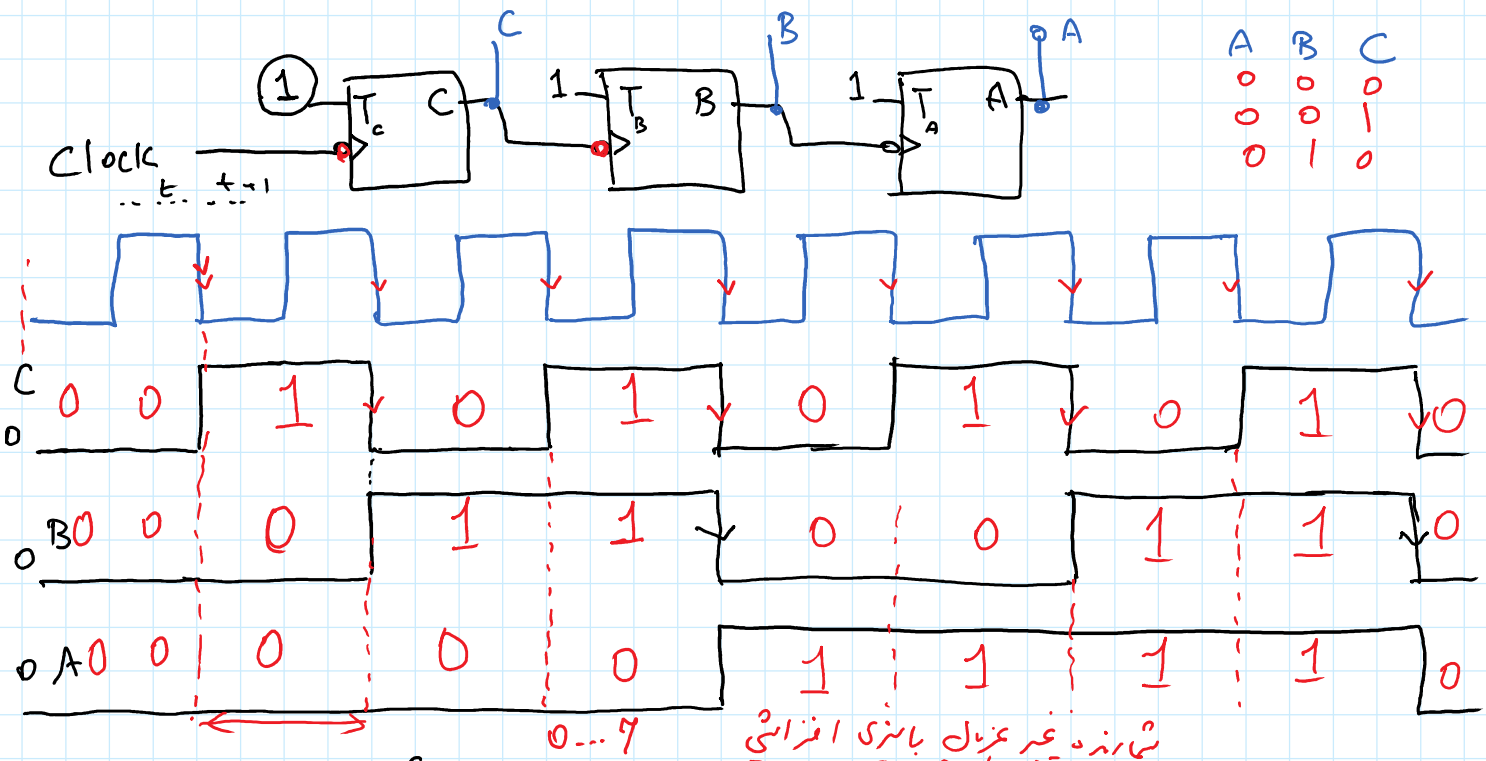


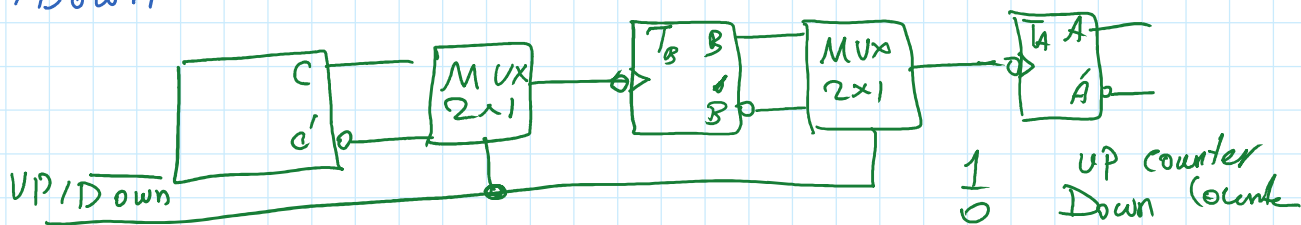
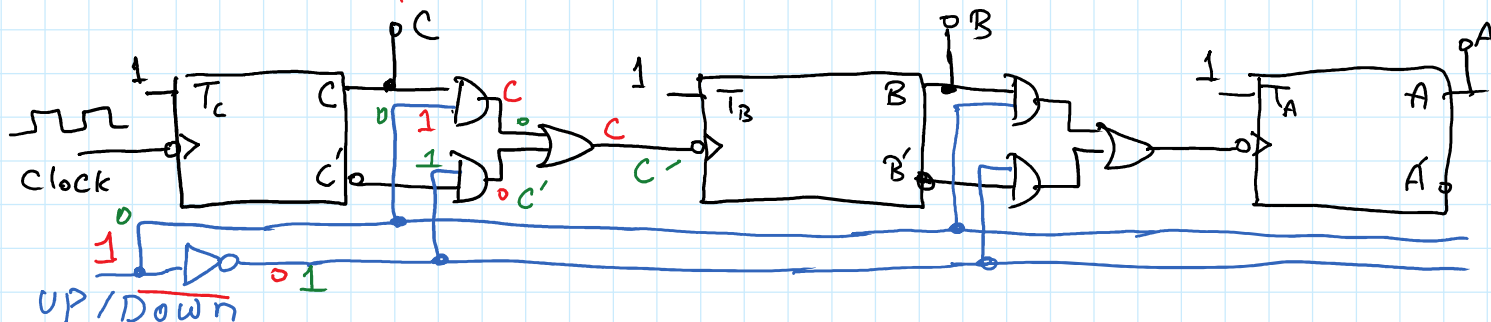
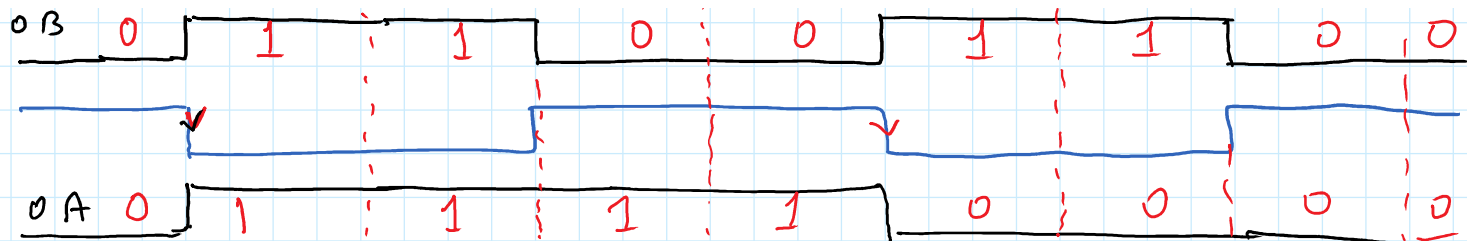
0	0	0
0	0	1
0	1	0
0	1	1
1	0	0

$$\left. \begin{array}{l} Q_{t+1} = D \\ D = Q'_t \end{array} \right\} \rightarrow Q_{t+1} = Q'_t$$



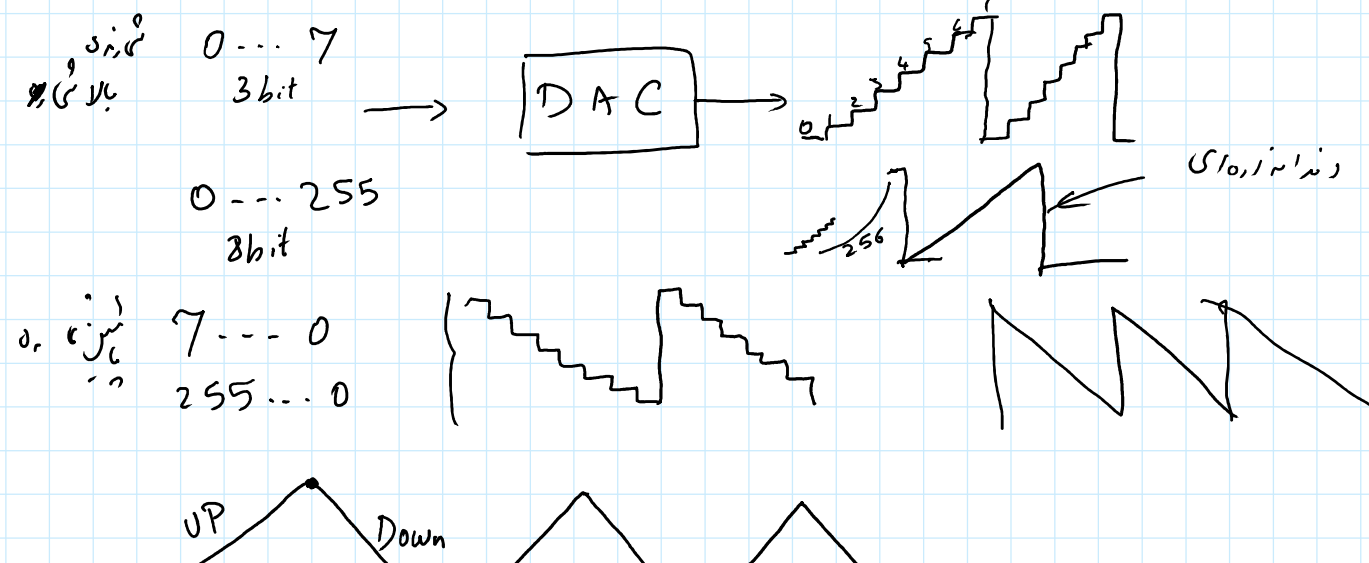
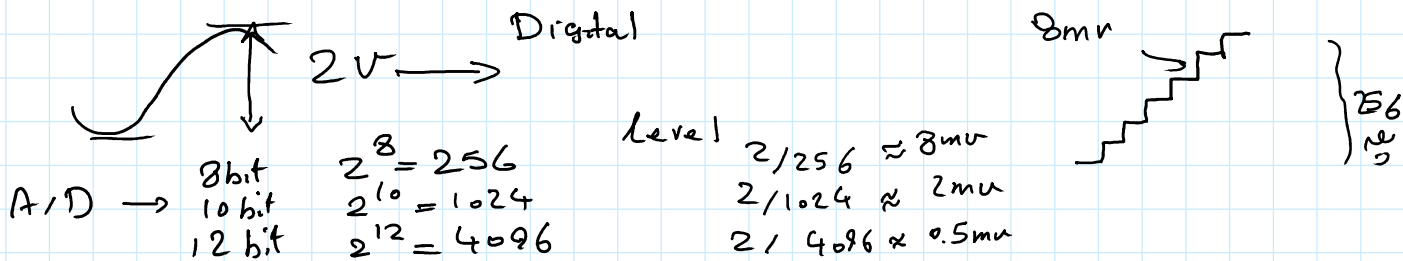
A	B	C
0	0	0
0	0	1
0	1	0

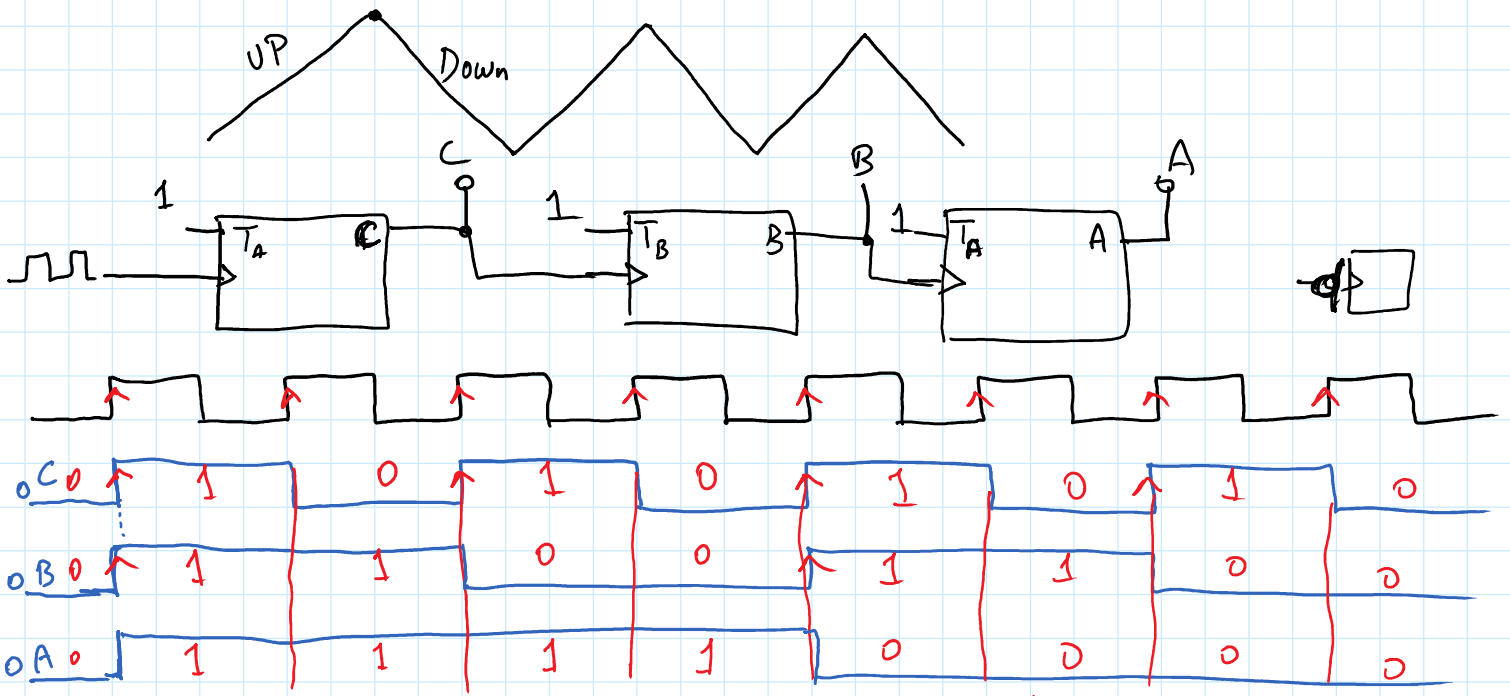




A/D
Analog to Digital Converter
ADC

D/A
Digital to Analog Conv.
DAC

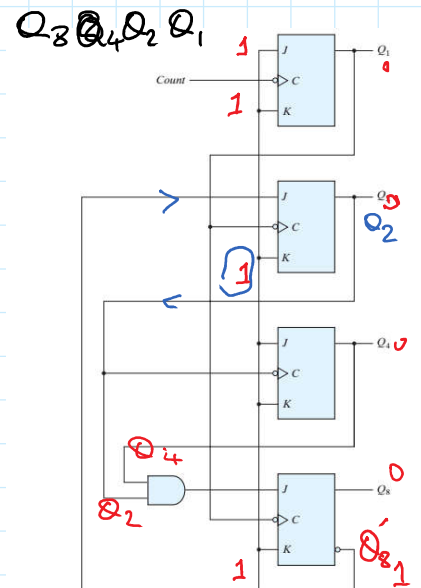
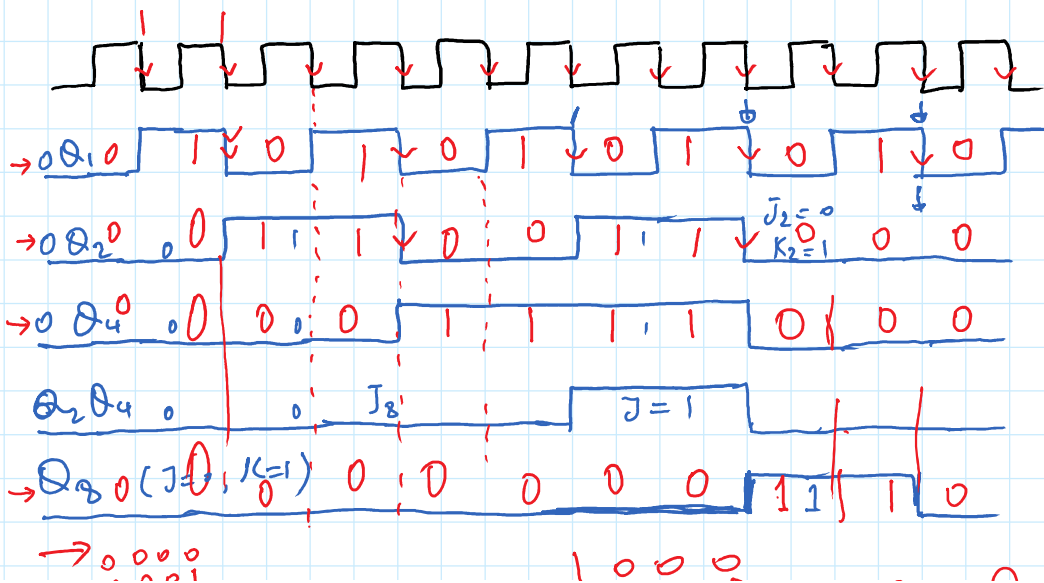




Positive Edge / Negative Edge
 در مدارات ترتیبی غیر همزمان، هر وقت که J یا K تغییر کند، فقط همان است که تغییر نوع می‌کند.

BCD Counter 0-9

همانند ترتیبی غیر همزمان (نوع دوم)
 Ripple Counter



→ 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0

→
 0 0 0 0
 0 0 0 1
 0 0 1 0
 1 0 0 0

1 0 0 0
 1 0 0 0
 0 0 0 0

0 - 9

