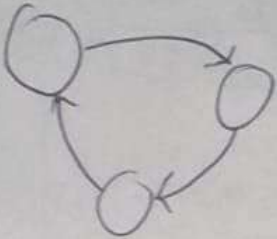
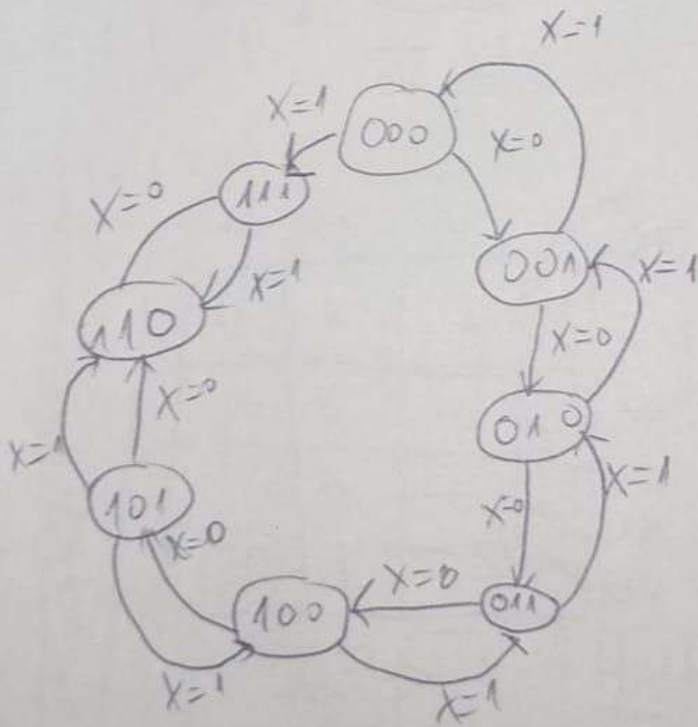
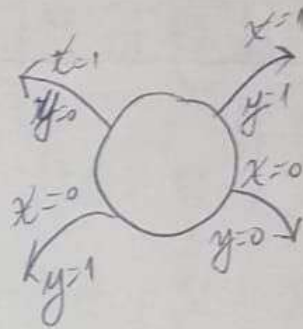
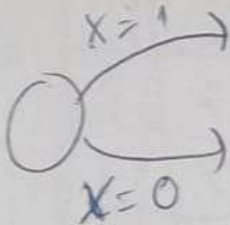


# Curs Proiectare logică 13

Pe  $\forall$  state (S),  $\exists$  o singură tranziție NUMĂRĂTOARE



$\exists$  mai multe ieșiri implică ( $\exists$ ) unei variabile de ramificare



#	X	$\Phi_2$	$\Phi_1$	$\Phi_0$	$\Phi_2'$	$\Phi_1'$	$\Phi_0'$
0	0	0	0	0	0	0	1
1	0	0	0	1	0	1	0
2	0	0	1	0	0	1	1
3	0	0	1	1	1	0	0
4	0	1	0	0	1	0	1
5	0	1	0	1	1	1	0
6	0	1	1	0	1	1	1
7	0	1	1	1	0	0	0
8	1	0	0	0	1	1	1
9	1	0	0	1	0	0	0
10	1	0	1	0	0	0	1
11	1	0	1	1	0	1	0
12	1	1	0	0	0	1	1
13	1	1	0	1	1	0	0
14	1	1	1	0	1	0	1
15	1	1	1	1	1	1	0

a)  $\Phi_2' = \Phi_2 = \bar{X}\Phi_2\bar{\Phi}_1 + \Phi_2\Phi_1\bar{\Phi}_0 + X\Phi_2\Phi_0 + X\bar{\Phi}_2\Phi_1\bar{\Phi}_0 + \bar{X}\bar{\Phi}_2\Phi_1\Phi_0$

$\Phi_1\Phi_0$	00	01	11	10
00	0	1	0	1
01	0	1	1	0
11	1	0	1	0
10	0	1	1	0

$A = \Phi_1' = X(\bar{\Phi}_1\bar{\Phi}_0 + \Phi_1\Phi_0) + \bar{X}(\bar{\Phi}_1\Phi_0 + \Phi_1\bar{\Phi}_0)$   
 $= X \oplus \Phi_1 \oplus \Phi_0$

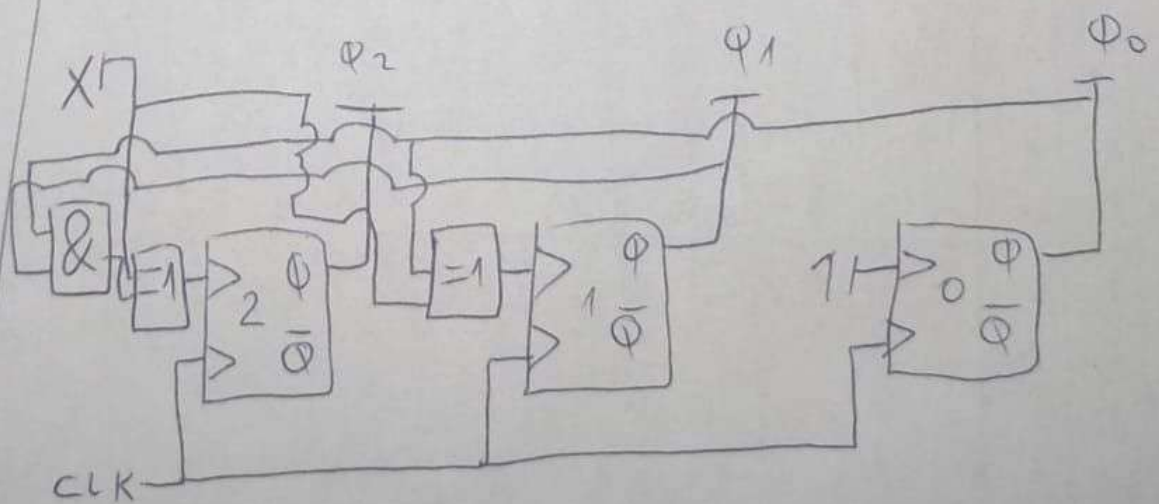
X	$\Phi_2$	00	01	11	10
00	0	0	1	1	
01	1	1	0	0	
11	0	0	1	1	
10	1	1	0	0	

$\Phi_0 = \Phi_0' = \bar{\Phi}_0$

$X\Phi_2$	00	01	11	10
00	1	1	1	1
01	0	0	0	0
11	0	0	0	0
10	1	1	1	1

	X	$Q_2$	$Q_1$	$Q_0$	$Q_2'$	$Q_1'$	$Q_0'$	$J_2$	$K_2$	$J_1$	$K_1$	$J_0$	$K_0$
X=0	0	0	0	0	0	0	1	0	X	0	X	1	X
	0	0	0	1	0	1	0	0	X	X	X	X	X
	0	0	1	0	0	0	1	1	X	X	0	1	X
	0	0	1	1	1	0	0	1	X	X	1	X	X
	0	1	0	0	1	1	1	X	0	1	X	1	X
	0	1	0	1	1	1	0	X	0	X	1	X	X
	0	1	1	0	0	0	1	X	1	X	1	X	X
	0	1	1	1	0	0	0	X	1	X	1	X	X
X=1	1	0	0	0	1	1	1	0	X	X	X	1	X
	1	0	0	1	0	0	0	0	X	X	1	X	X
	1	0	1	0	0	0	1	0	X	1	X	1	X
	1	0	1	1	0	0	0	0	X	1	X	1	X
	1	1	0	0	0	1	0	1	1	X	1	X	X
	1	1	0	1	0	1	0	1	0	X	1	X	X
	1	1	1	0	1	0	1	0	0	1	X	1	X
	1	1	1	1	1	1	0	0	0	0	1	1	1

$T_2$	$T_1$	$T_0$
0	0	1
0	1	1
0	0	1
1	1	1
0	0	1
0	1	1
0	0	1
1	1	1
1	0	1
0	1	1
0	0	1
1	1	1
0	0	1
0	1	1
0	0	1





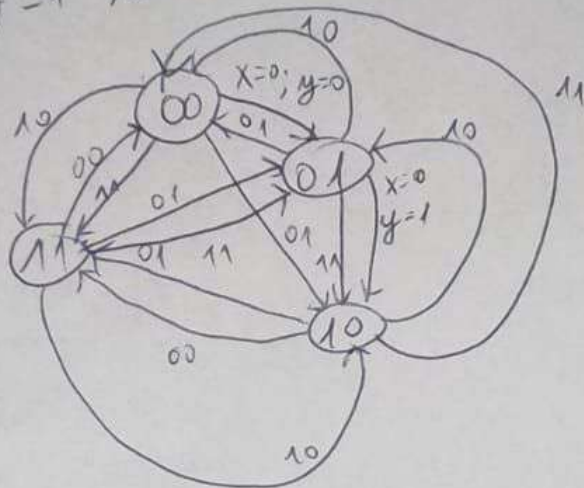
3 BB JK,

$x=0; y=0; 0-1-2-3-0$

$x=0; y=1; 0-2-3-1-0$

$x=1; y=0; 0-3-2-1-0$

$x=1; y=1; 0-3-1-2-0$



X	Y	$Q_1$	$Q_0$	$Q_1'$	$Q_0'$	$J_1$	$K_1$	$J_0$	$K_0$
0	0	0	0	0	1	0	X	1	X
0	0	0	1	1	0	1	X	X	1
0	0	1	0	1	1	X	0	1	X
0	0	1	1	0	0	X	1	X	1
0	1	0	0	1	0	1	X	0	X
0	1	0	1	0	0	0	X	X	1
0	1	1	0	1	1	X	0	1	X
0	1	1	1	0	1	1	X	X	0
1	0	0	0	1	1	X	1	1	X
1	0	0	1	0	0	X	0	X	1
1	0	1	0	0	1	X	0	1	X
1	0	1	1	1	0	X	1	X	1
1	1	0	0	1	1	X	0	1	X
1	1	0	1	1	0	X	0	X	1
1	1	1	0	0	0	1	0	X	X
1	1	1	1	0	1	X	0	X	0