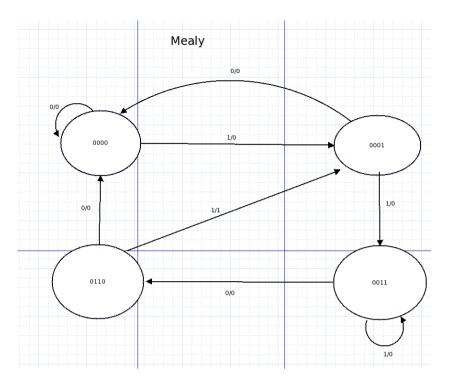
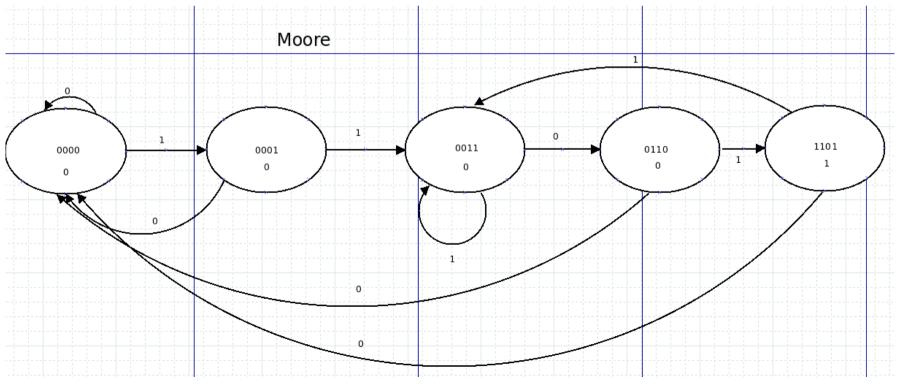
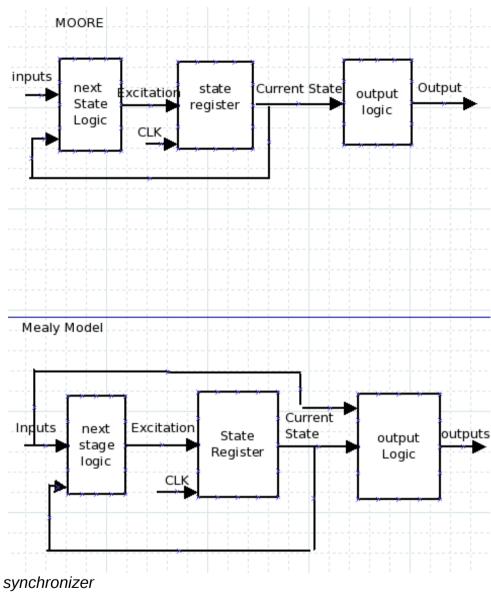
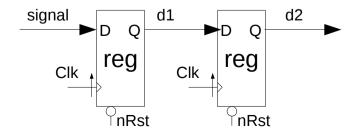
input4	input3	input2	input1	outpu t	
0	0	0	0	0	0
0	0	0	1	1	1
0	0	1	0	0	2
0	0	1	1	1	3
0	1	0	0	0	4
0	1	0	1	1	5
0	1	1	0	1	6
0	1	1	1	1	7
1	0	0	0	0	8
1	0	0	1	1	9
1	0	1	0	1	10
1	0	1	1	1	11
1	1	0	0	0	12
1	1	0	1	1	13
1	1	1	0	1	14
1	1	1	1	1	15

К-Мар					
	3'	3		3'	
2'	0	0	0	0	1'
	1	1	1	1	1
2	1	1	1	1]
	0	1	1	1	1'
		4'		4	
Sum of Products:		1+(2*3)+(2*4)			

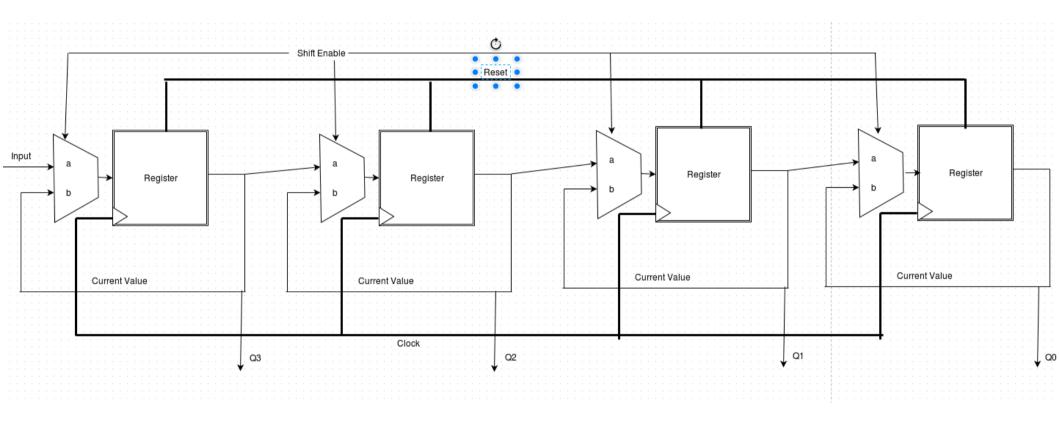




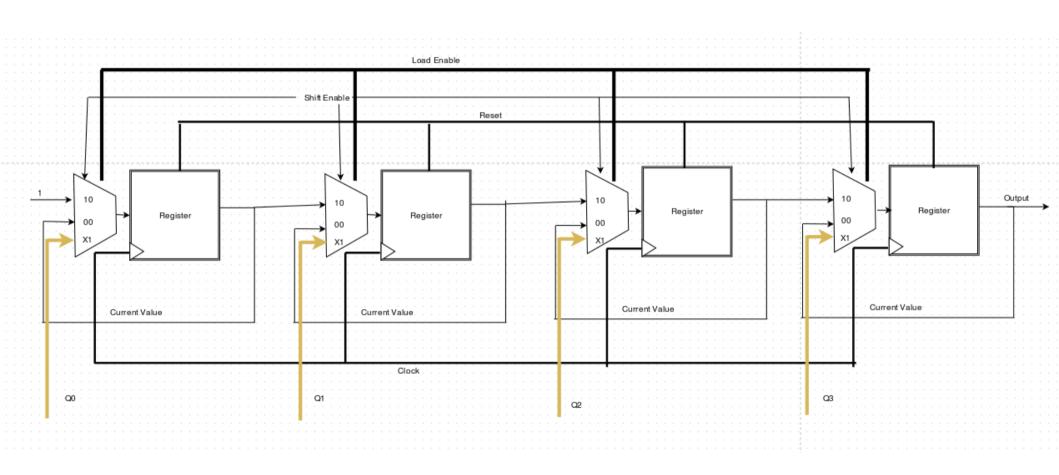




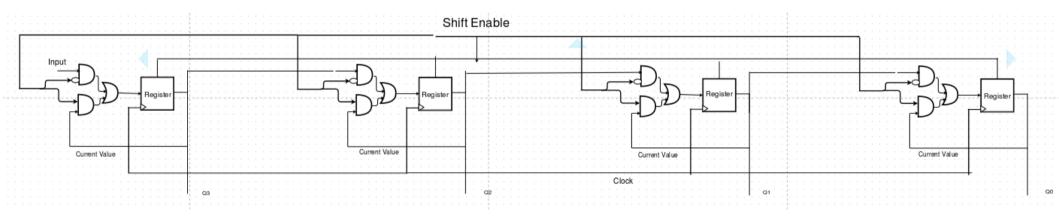
RTL for Serial to Parallel



RTL for Parallel to Serial



Schematic for Serial to Parallel



Schematic for Parallel to Serial

