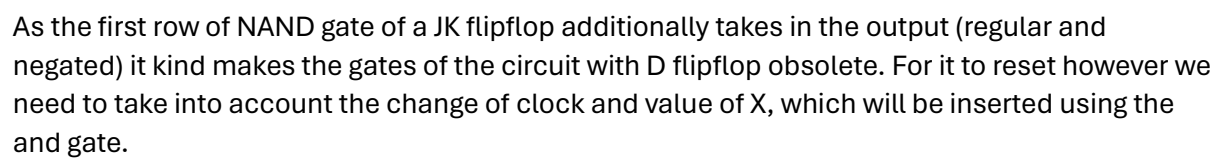
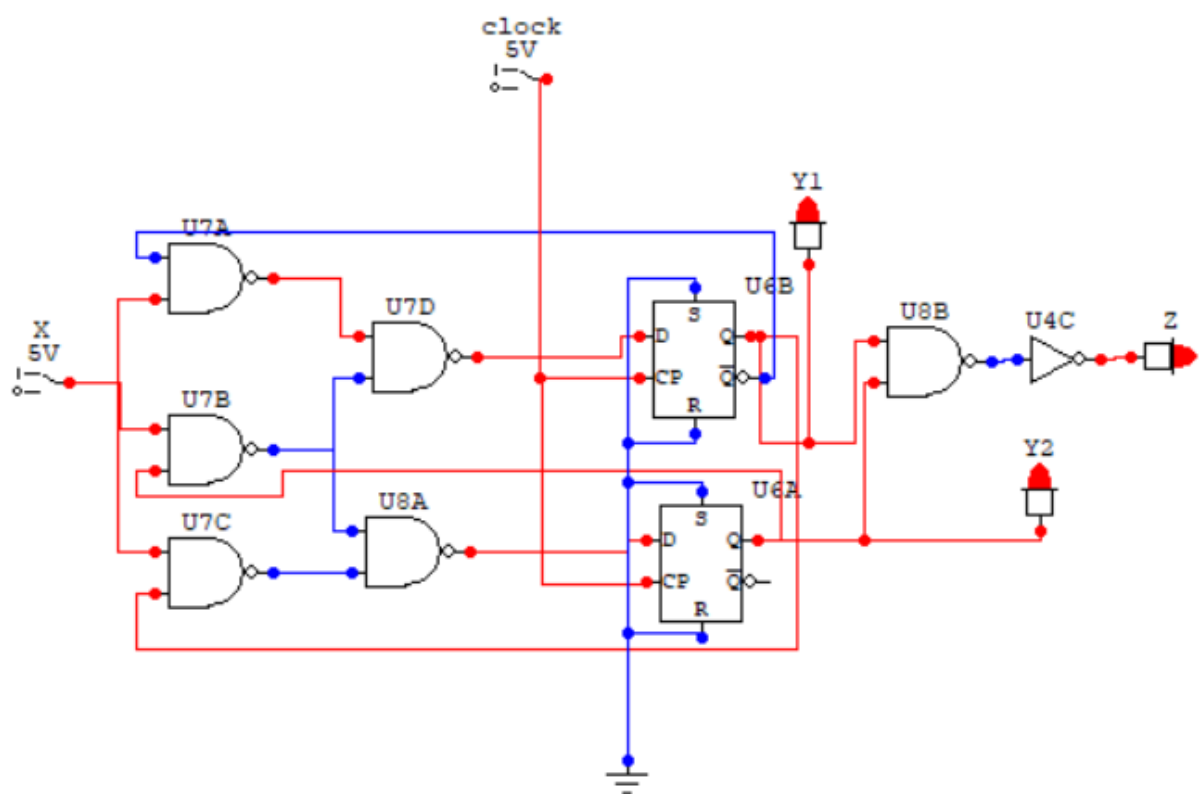
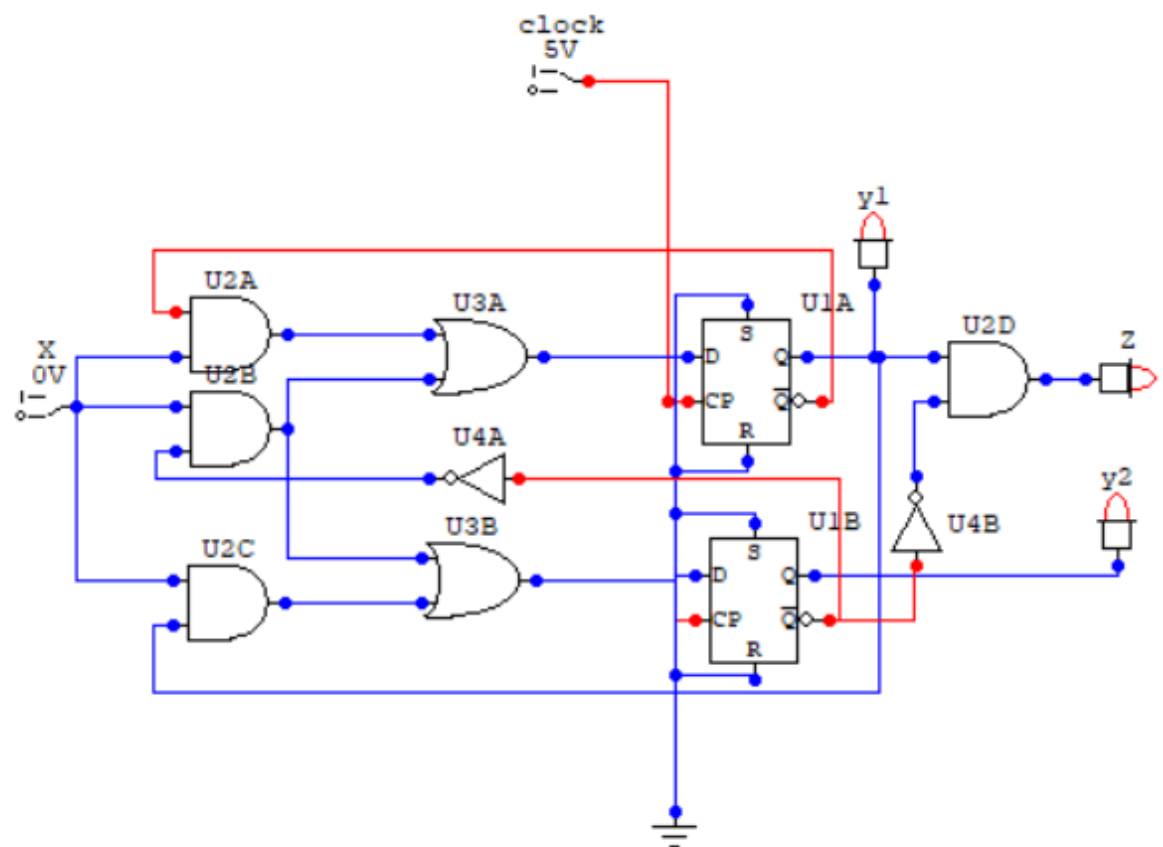


Digital circuits laboratory class	Year 2024, exercise 4
Author: Jakub Turkowski	Title of the exercise: Analysis of synchronous circuit
Laboratory group number: 2	Week day: Tuesday Realization date: 09.04.2024 Hours of the lab: 15:15-16:55

X	D1	D1 NEXT	D2	D2 NEXT	Y
0	0	0	0	0	0
0	0	0	1	0	0
0	1	0	0	0	0
0	1	0	1	0	0
1	0	1	0	0	0
1	0	1	1	1	1
1	1	0	0	1	0
1	1	1	1	1	1





time	t1	t2	t3	t4	t5	t6
x	1	1	1	1	0	0
y1y2	1 0	0 1	1 1	1 1	0 0	0 0
Z	0	0	1	1	0	0

For the NAND version:

$$D1: (y1'x) + (y2x) = ((y1'x)'(y2x)')'$$

$$D2: (y1x) + (y2x) = ((y1x)'(y2x)')'$$

$$O: (y2y1) = ((y2y1)')'$$