Ejercicio 1

Lab C

Ejercicio 1

2)

actual State	Inp A	B	futuro State	Salida Y
S0	0	X	S1	0
S0	1	X	S0	0
S1	X	0	S2	0
S1	X	1	S0	0
S2	0	0	S0	1
S2	1	1	S2	0

	S0	S1
S0	0	0
S1	0	1
S2	1	0

S0→S1

1)
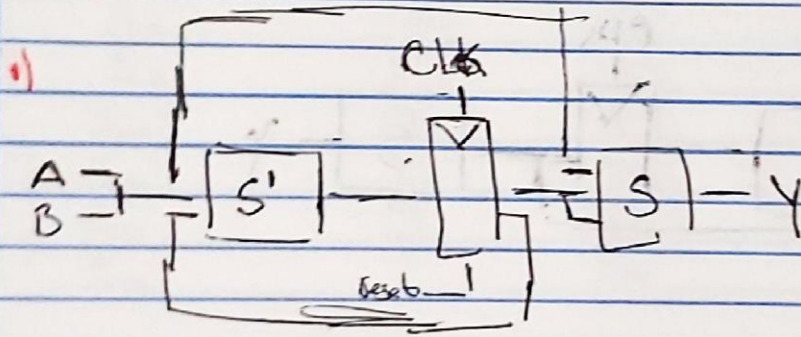
SO	S1	A	B	=>	FO	F1
0	0	0	0		0	1
0	0	0	1		0	1
0	0	1	0		0	0
0	0	1	1		0	0
0	1	0	0		1	0
0	1	0	1		0	0
0	1	1	0		1	0
0	1	1	1		0	0
1	0	0	0		0	0
1	0	0	1		0	0
1	0	1	0		0	0
1	0	1	1		1	0
1	1	0	0		X	X
1	1	0	1		X	X
1	1	1	0		X	X
1	1	1	1		X	X

3)

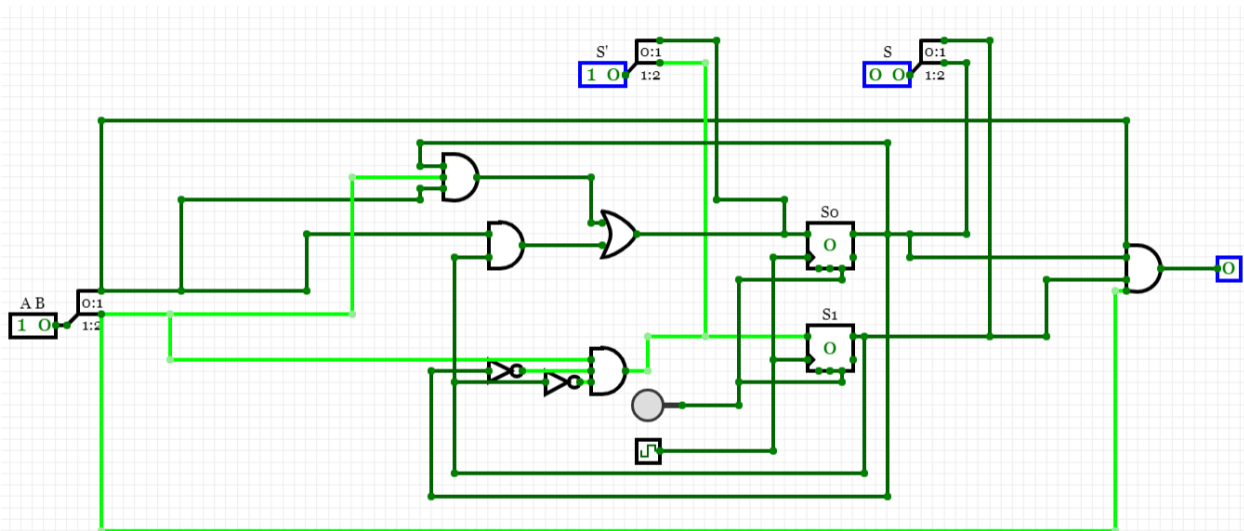| SO	S1	A	B	=>	FO	F1
1	X	1	1		1	
X	1	X	0		1	
0	0	0	X			1

4)

Minimized:
FO = S0 A B + S1 B';
F1 = S0' S1' A' ;

5)

6)

Ejercicio 2
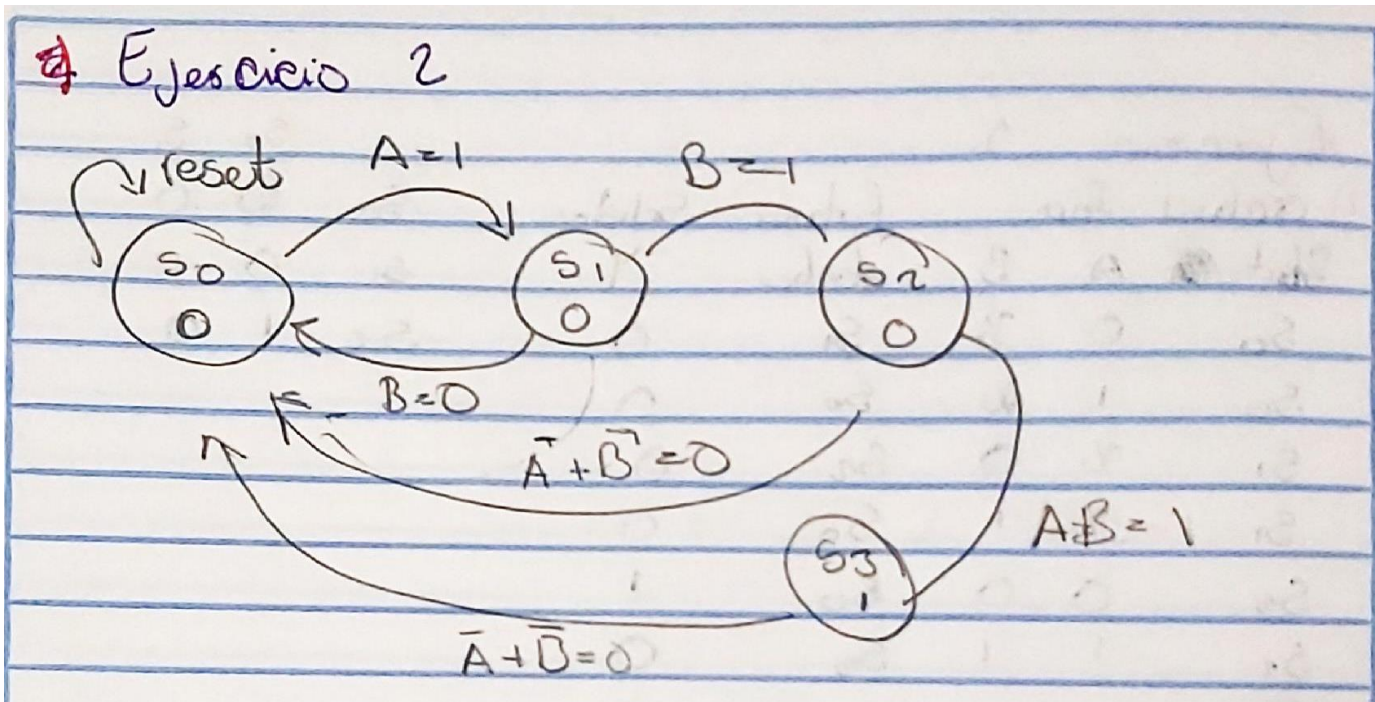
Ejercicio 3
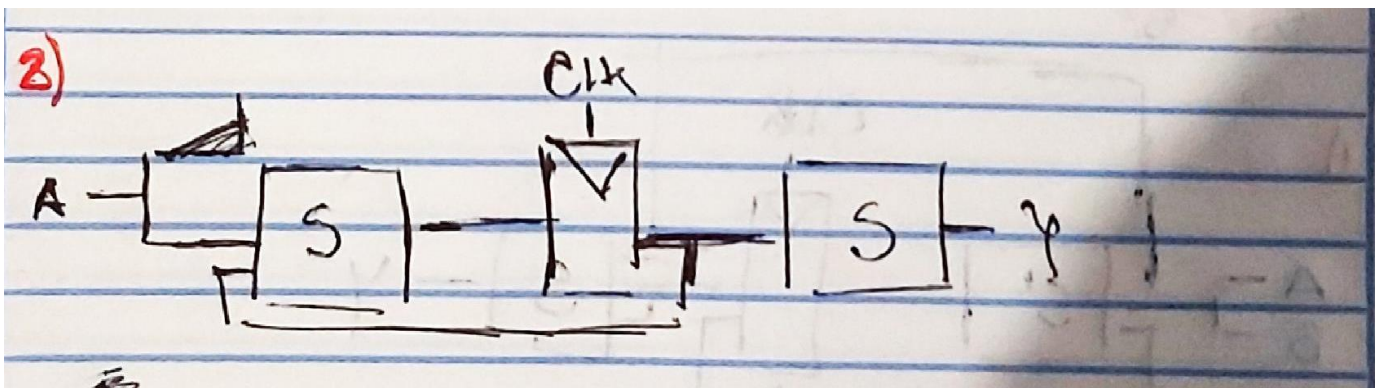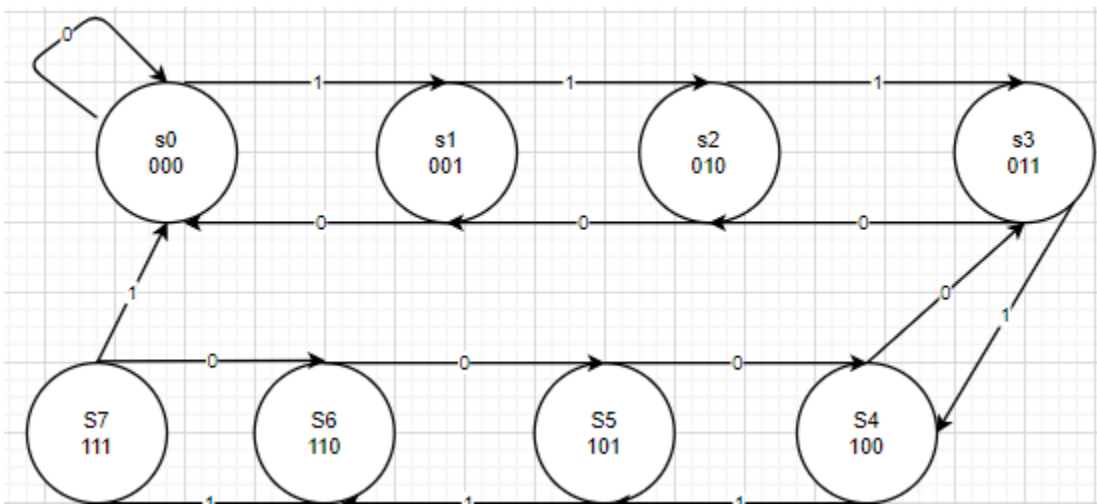
S0	S1	S2	A	=>	F0	F1	F2
0	1	1	1		1		
1	0	0	0			1	1
1	X	1	0		1		
1	0	X	1		1		
X	1	1	0			1	
X	0	1	1			1	
1	1	0	X		1		
X	1	0	1			1	
X	X	0	1				1
X	1	0	X				1

5)

```
Entered by truthtable:
F0 = S0' S1 S2 A + S0 S1' S2' A + S0 S1' S2 A' + S0 S1' S2 A + S0 S1 S2' A' + S0 S1 S2' A + S0 S1 S2 A';
F1 = S0' S1' S2 A + S0' S1 S2' A + S0' S1 S2 A' + S0 S1' S2' A' + S0 S1' S2 A + S0 S1 S2' A + S0 S1 S2 A';
F2 = S0' S1' S2' A + S0' S1 S2' A' + S0' S1 S2' A + S0 S1' S2' A' + S0 S1' S2 A + S0 S1 S2' A' + S0 S1 S2' A;

Minimized:
F0 = S0' S1 S2 A + S0 S2 A' + S0 S1' A + S0 S1 S2' ;
F1 = S0 S1' S2' A' + S1 S2 A' + S1' S2 A + S1 S2' A;
F2 = S0 S1' S2' A' + S2' A + S1 S2' ;
```
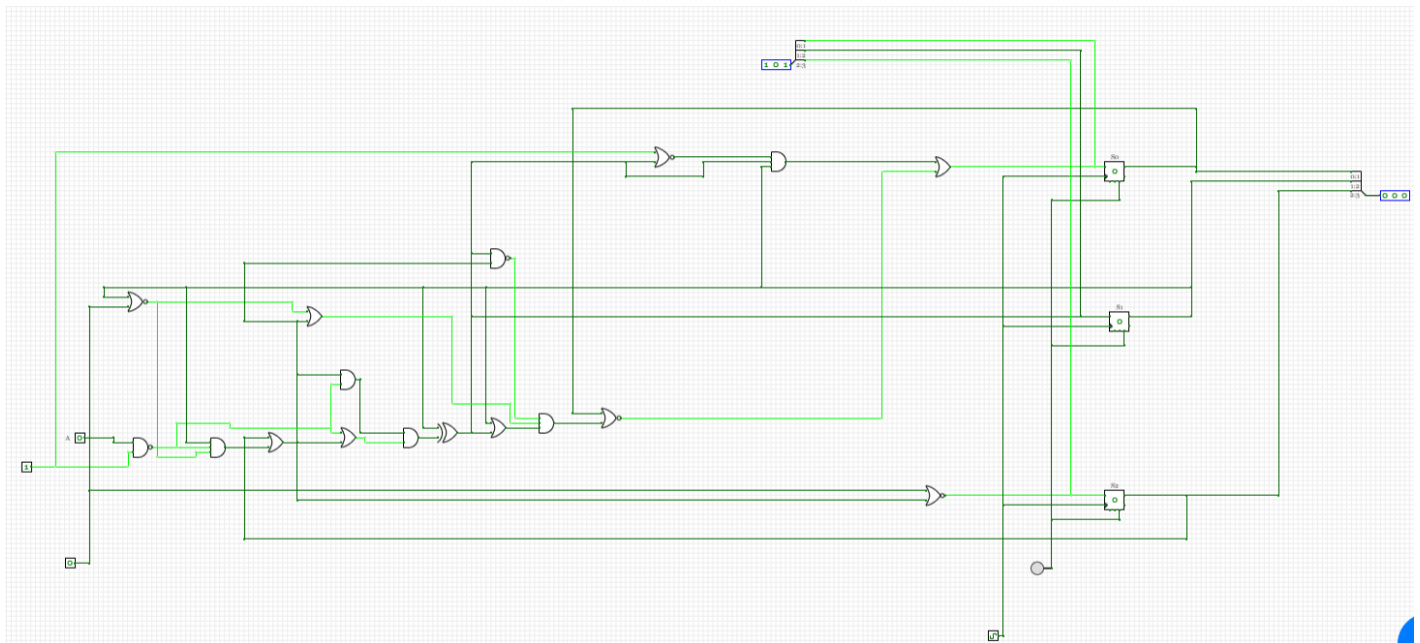
6)

7)

Ejercicio 4

Ejercicio 5 y 6

https://github.com/gar19163/Laboratorios-Digital_1/tree/master/Lab6