NAME   :   MOTWKEL MHMOUD MOHMED ADAM

NIM   :   L200184220
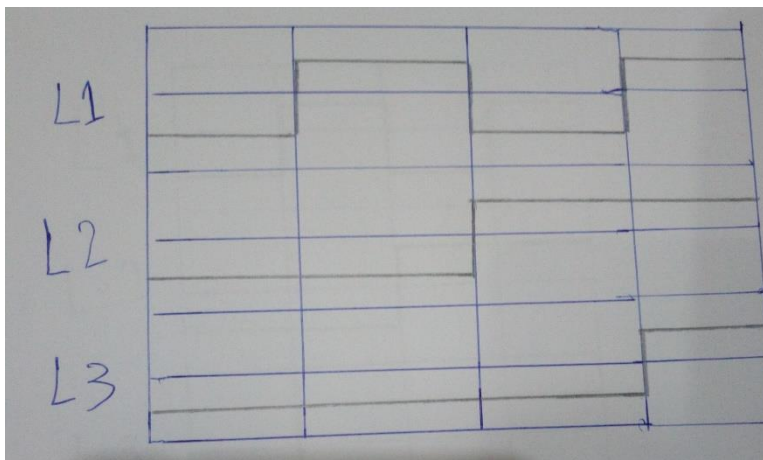
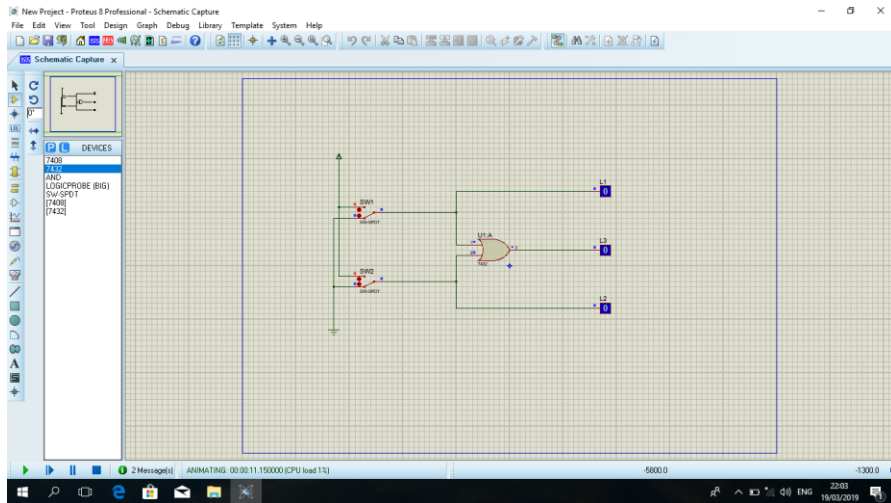CLASS   :   X

1. AND GATE
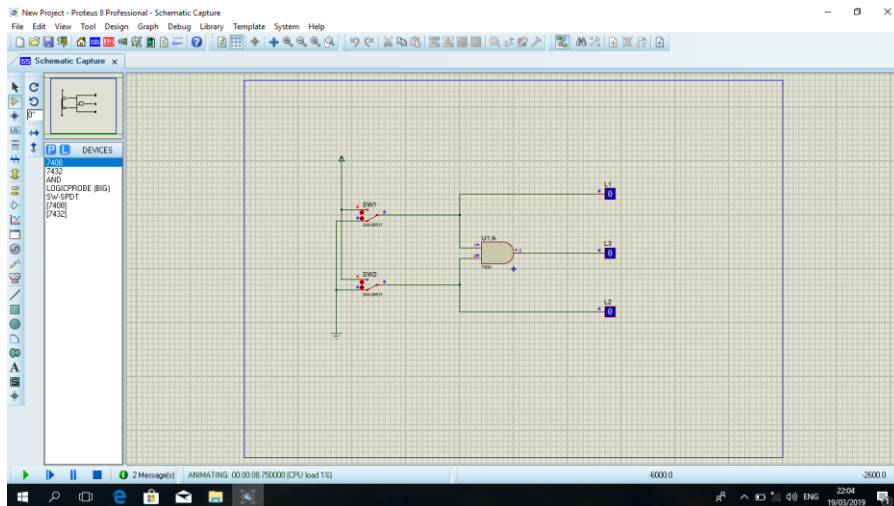
The Truth table :

SW1	SW2	L1	L2	L3
0	0	0	0	0
1	0	1	0	0
0	1	0	1	0
1	1	1	1	1

Time Diagram

2.OR GATE :

The Truth Table

SW1	SW2	L1	L2	L3
0	0	0	0	0
1	0	1	0	1
0	1	0	1	1
1	1	1	1	1

Time Diagram
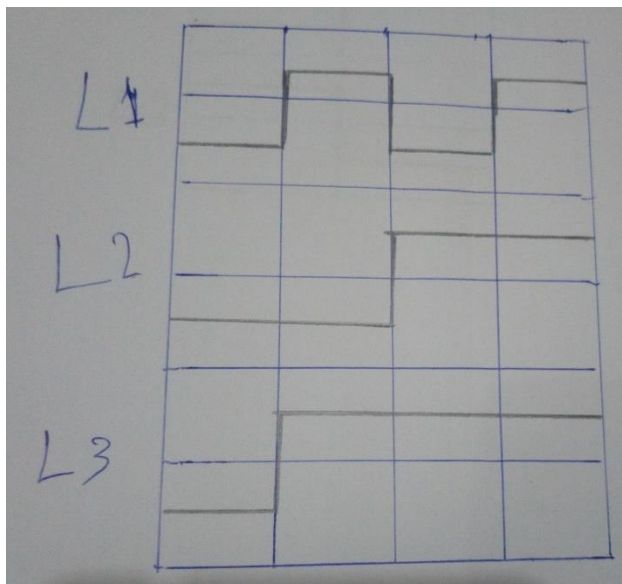
3.NOT GATE :
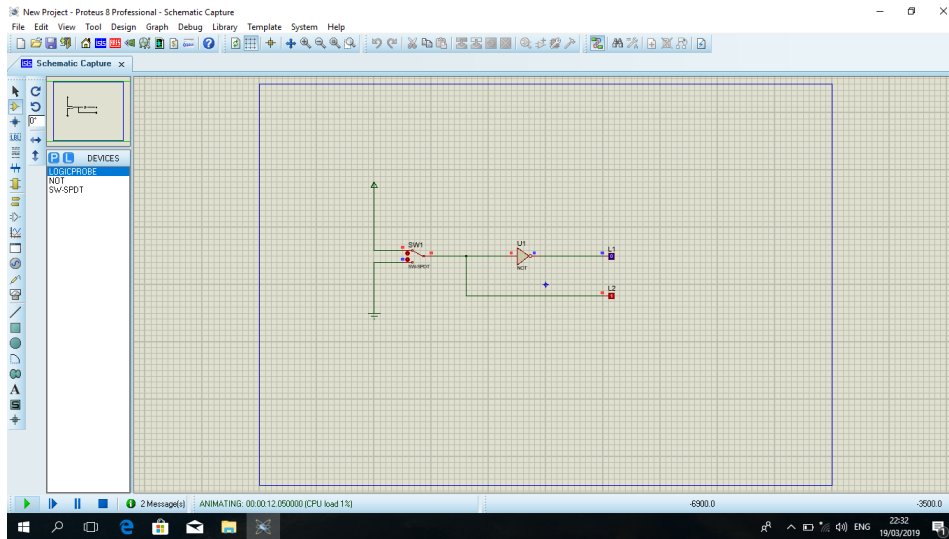
The Truth table :

SW1	L1	L2
0	0	1
1	1	0

Time Diagram
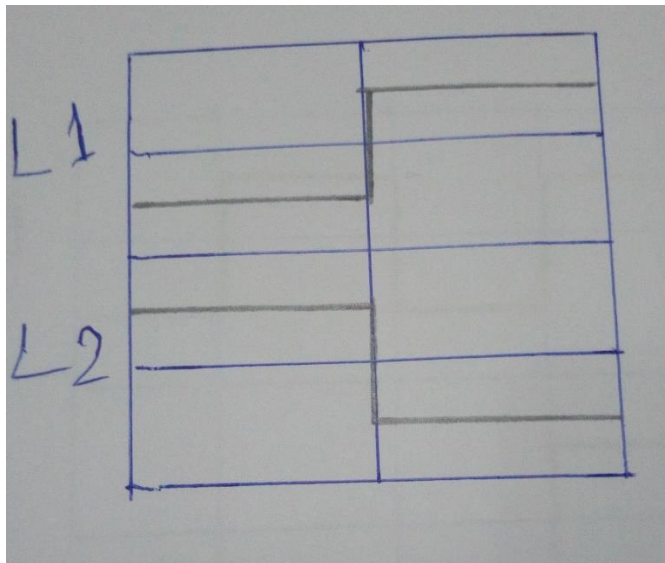
4.NAND GATE :
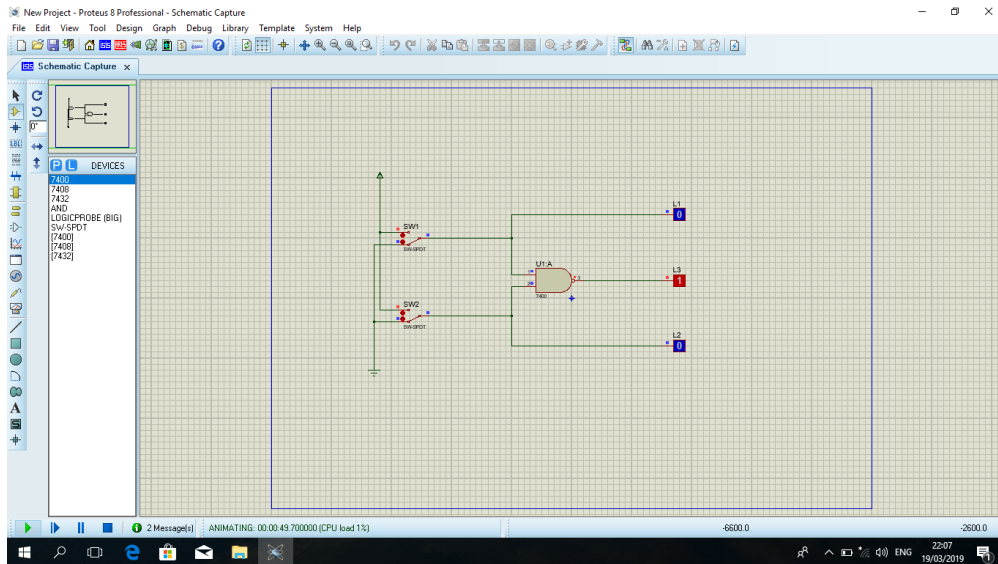
The Truth table :

SW1	SW2	L1	L2	L3
0	0	0	0	1
1	0	1	0	1
0	1	0	0	1
1	1	1	1	0

Time Diagram
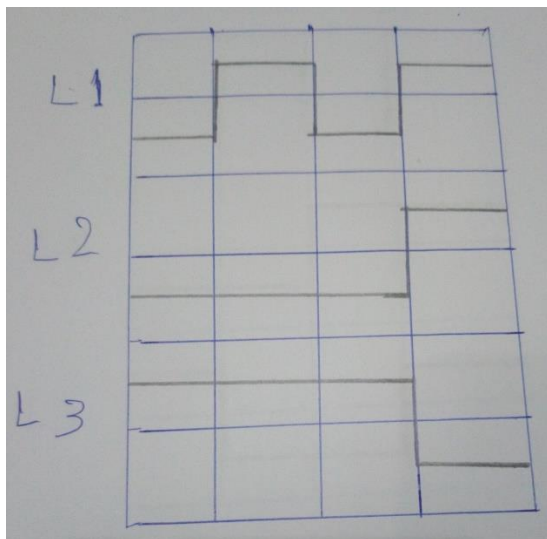
5.NOR GATE :
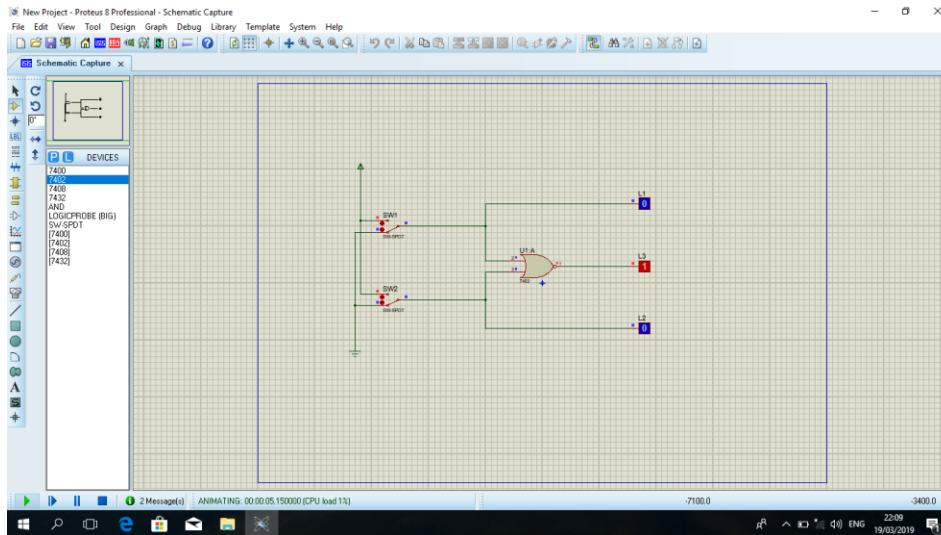
The Truth table :

SW1	SW2	L1	L2	L3
0	0	0	0	1
1	0	1	0	0
0	1	0	1	0
1	1	1	1	0

Time Diagram
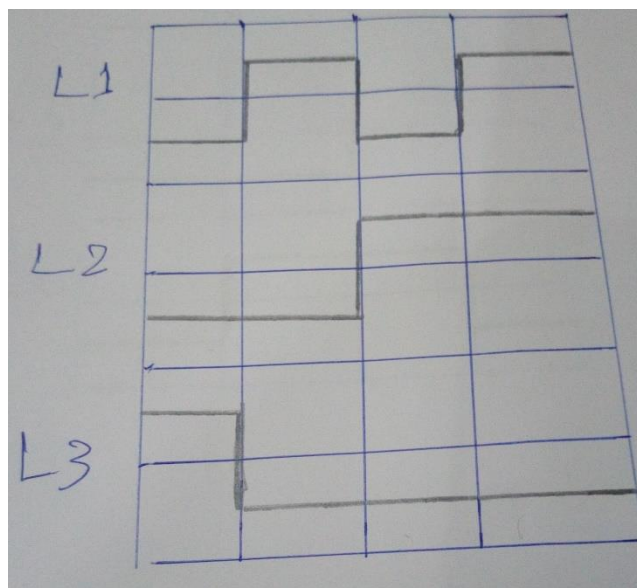
6.XOR GATE :
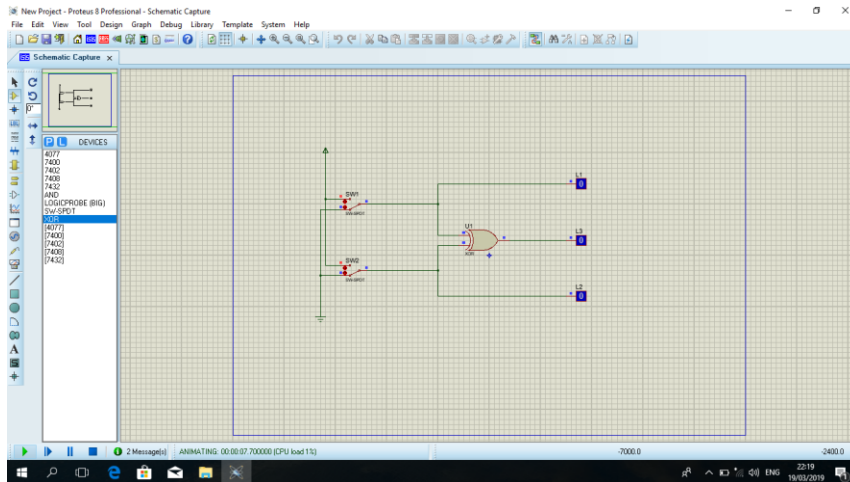
The Truth table :

Sw1	Sw2	L1	L2	L2
0	0	0	0	0
1	0	1	0	1
0	1	0	1	1
1	1	1	1	0

Time Diagram

7.XNOR GATE :

The Truth table :

Sw1	Sw2	L1	L2	L3
0	0	0	0	1
1	0	1	0	0
0	1	0	1	0
1	1	1	1	1

Time Diagram