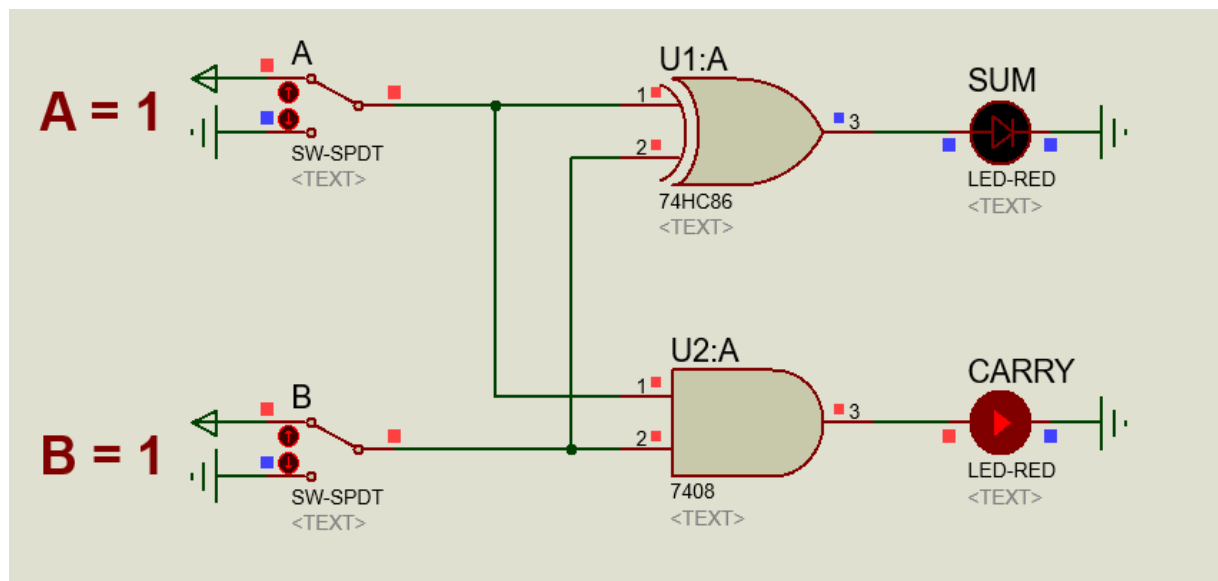
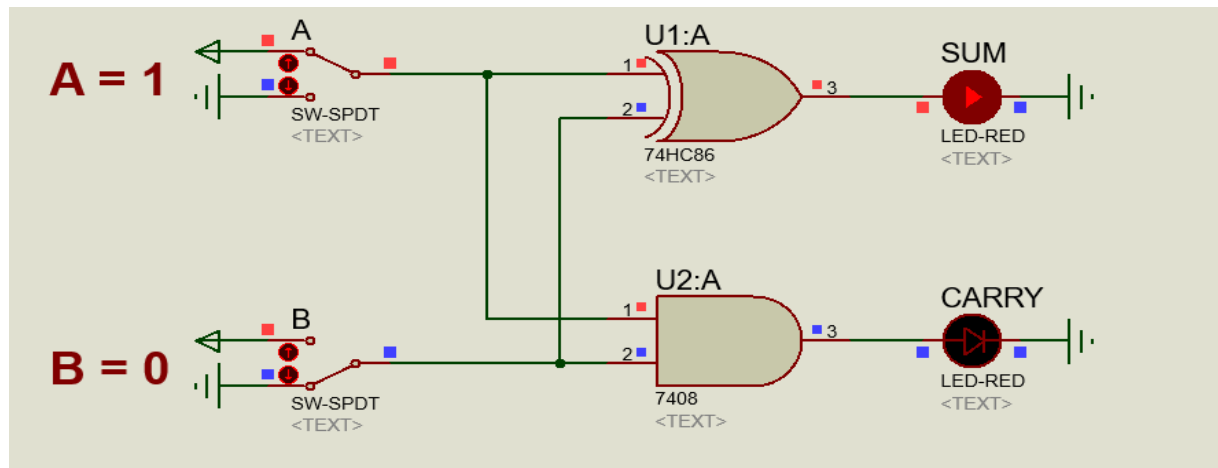
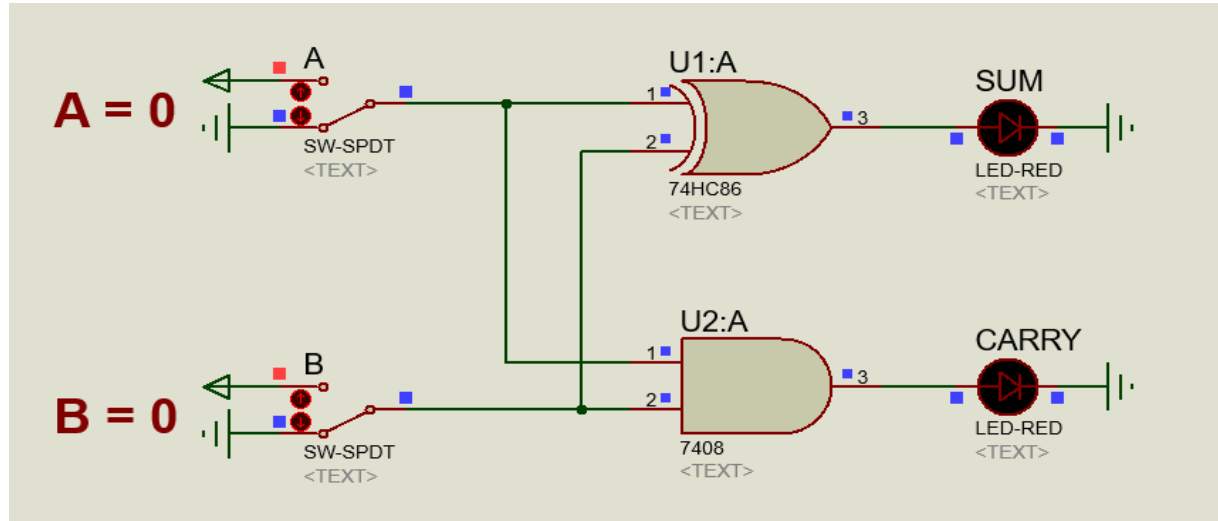


# SAYISAL TASARIM LAB. 4.DENEY PRELAB

152120151004 – ELIF GENÇ

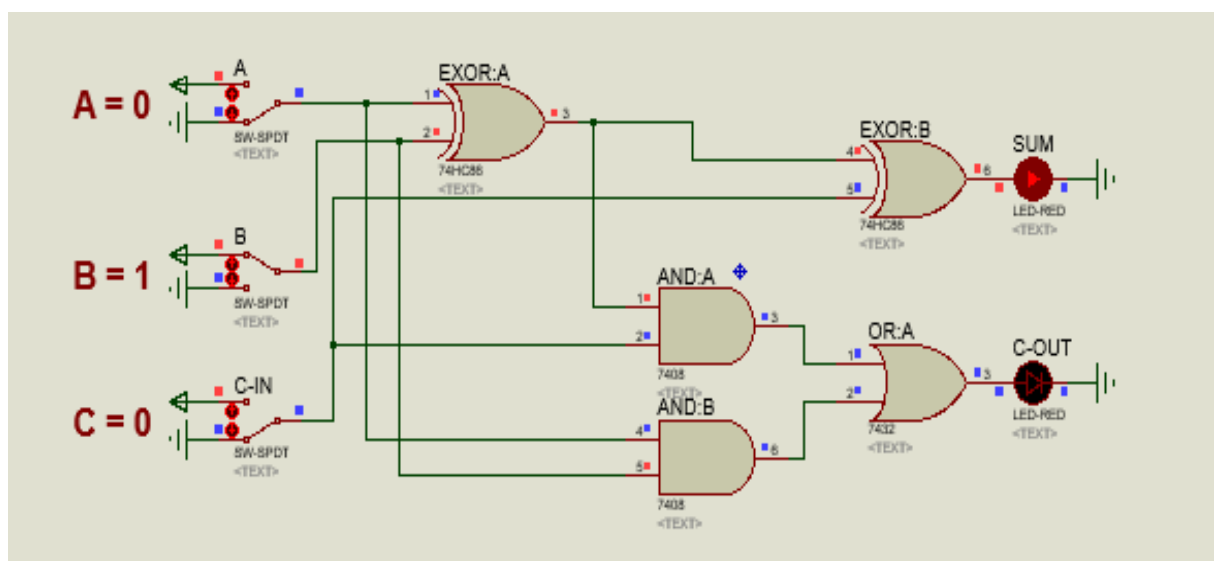
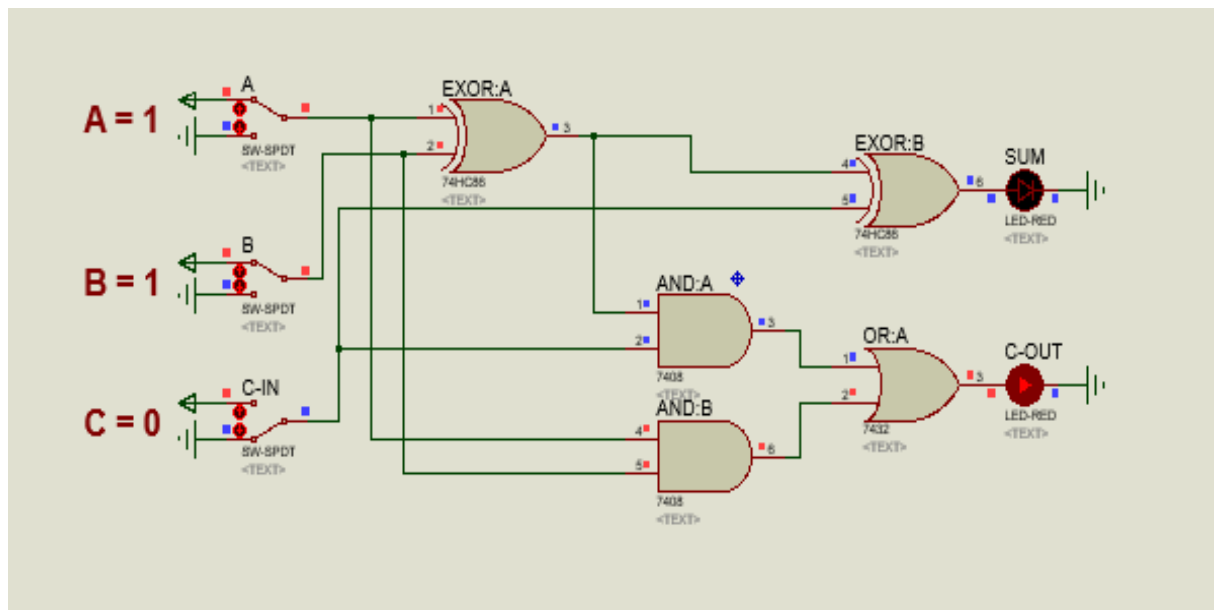
## 1.SORU 1.KISIM - HALF ADDER



## HALF ADDER TRUTH TABLE

INPUTS		OUTPUTS	
A	B	SUM	CARRY
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1

## 1.SORU 2.KISIM - FULL ADDER



## FULL ADDER TRUTH TABLE

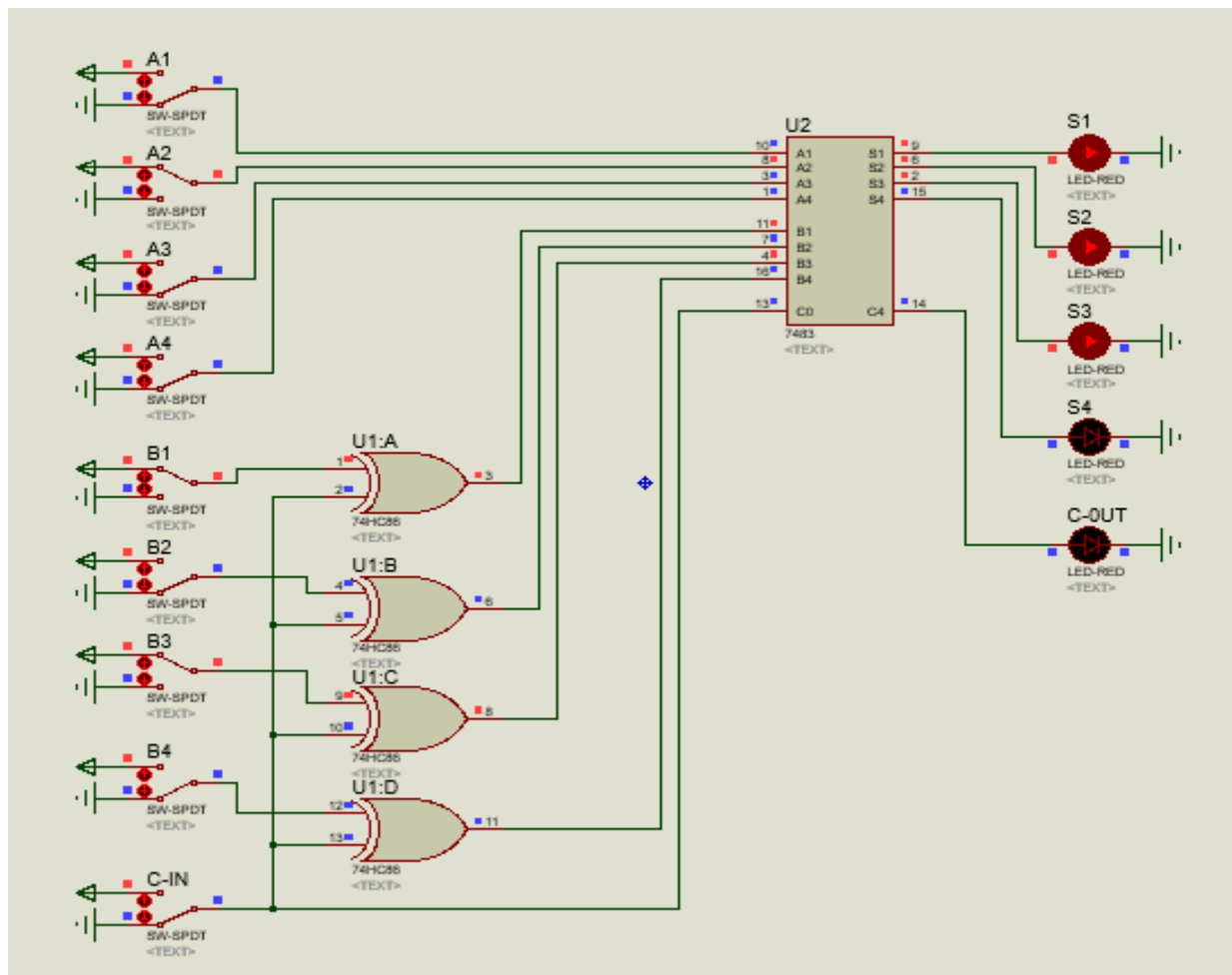
INPUTS			OUTPUTS	
A	B	C-IN	SUM	C-OUT
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

## 2.SORU

	1s complement	2s complement
1011	0100	0101
1111	0000	0001
0101	1010	1011
0000	1111	10000
0011	1100	1101

## 3. SORU

Decimal	Signed Magnitude	Signed 1's complement	Signed 2' complement
-4	10000100	01111011	01111100
-12	10001100	01110011	01110100
-8	10001000	01110111	01111000
-16	10010000	01101111	01110000
-1	10000001	01111110	11111111



$$A = 2 \quad B = 5 \quad A + B = 7 \text{ (0111)}$$