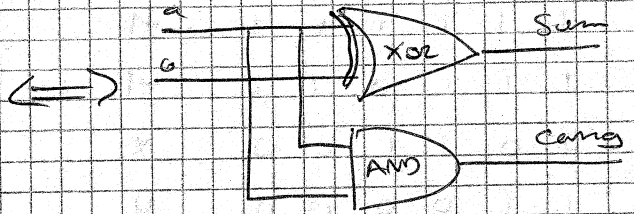
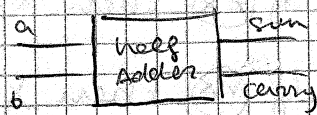


- PROJECT ② SUMMARY of the CHIPS

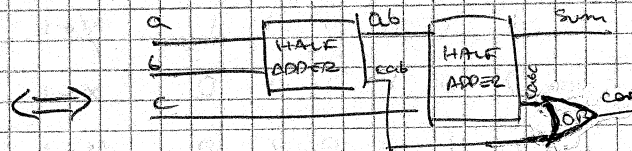
HALF ADDER

a	b	out	carry
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1



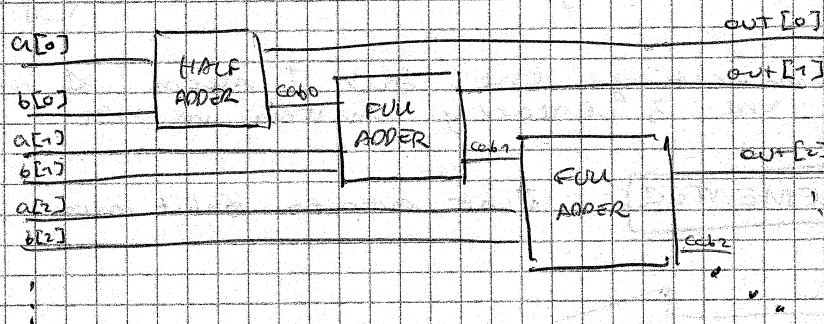
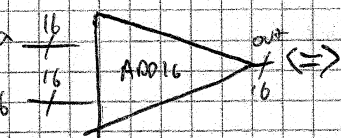
FULL ADDER

a	b	c	out	carry
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1



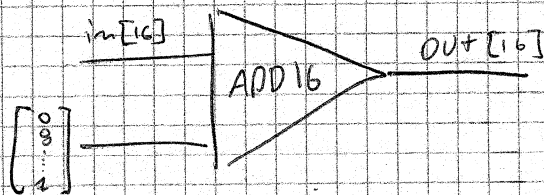
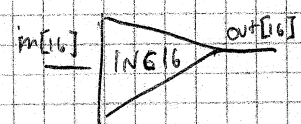
ADD 16

$$out[16] = a[16] + b[16]$$



INC 16

$$out[16] = in[16] + 1$$



created by inputting $b[0] = \text{true}$, $b[1..15] = \text{false}$