Adder:

Α	В		Cin		Cout		Sum		ExCout		ExSum
0	0	Ì	0	ĺ	0	ĺ	Θ	ĺ	0	ĺ	0
0	0		1		0		1		0		1
0	1		0		0		1		0		1
0	1		1		1		Θ		1		0
1	0		0		Θ		1		0		1
1	0		1		1		Θ		1		0
1	1		0		1		Θ		1		0
1	1		1	Τ	1	1	1	1	1	-	1

Decoder:

En	Α0	A1	00	01	02	03	1	Expected Output
0	0	0	0	0	0	0	ĺ	All false
0	1	0	0	0	0	0	ĺ	All false
0	0	1	0	0	0	0	ĺ	All false
0	1	1	0	0	0	0	ĺ	All false
1	0	0	1	0	0	0	ĺ	00 Only
1	1	0	0	1	0	0	ĺ	01 Only
1	0	1	0	0	1	0	1	02 Only
1	1	1	0	0	0	1	Ĺ	03 Only

Multiplexer:

Α0	Α1		in0	in1	in2	in3	EX_OUT Ou	ıt
0	0		1	0	0	Θ	1 1	L
0	1		0	1	0	Θ	1 1	L
1	0	ĺ	0	0	1	0	1 1	L
1	1	ĺ	0	0	0	1	1 1	L
0	0		0	1	1	1	0 0)
0	1		1	0	1	1	0 0)
1	0	Ĺ	1	1	0	1	0 0)
1	1	ĺ	1	1	1	0	0 0)

m '	1	1 lia	1 1-	1 1.	14.	r i.	C ida	1.1. 1.1.
Time		1 US			7 IS) US	b US	7 tis 8
a								
b	<u></u>							
andab								
andbIn	L							
andaIn								
carryout							ū	
orab	ī							
			- ir	+			1	
,			П					
i								



