		Dylar	n Lozon	CE 210	L	.ab 7		
	Т	able 1:	Truth ta	ble for 2	:-k	oit adde	er	
A1	A0	B1	В0	V	v	С	S1	S0
0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	1
0	0	1	0	0	0	0	1	0
0	0	1	1	0	0	0	1	1
0	1	0	0	0	0	0	0	1
0	1	0	1	1	1	0	1	0
0	1	1	0	0	0	0	1	1
0	1	1	1	0	0	1	0	0
1	0	0	0	0	0	0	1	0
1	0	0	1	0	0	0	1	1
1	0	1	0	1	1	1	0	0
1	0	1	1	1	1	1	0	1
1	1	0	0	0	0	0	1	1
1	1	0	1	0	0	1	0	0
1	1	1	0	1	1	1	0	1
1	1	1	1	0	0	1	1	0
	Table 2: Decimal Interpretation of 2-bit adder using unsigned							
	*C retains it's color because it is still a binary value, either you add 4 to S, or you don't.							
		A	В		s I	C		
		0	0		_	0		
		0	1	1	_	0		
		0	2	2	_	0		
		0	3	3	_	0		
		1	0		1	0		
		1	1	2	_	0		
		1	2		3	0		
		1	3	0	_	1		
		2	0	2	_	0		
		2	1	3	_	0		
		2	2	0	_	1		
		2	3	1	$\overline{}$	1		
		3	0	3	3	0		
		3	1	0	_	1		
		3	2	1	_	1		
		3	3	2	2	1		
		Table 3: Decim	al Interpretation of 3	2-bit adder using 2's Co	omol	ement Signed		
			1	ry value, either you overflo				
		A	В	_	S	V		
		0	0	0	_	0		
		0	1	1		0		
		0	-2	-2	_	0		
		0	-1	-1	_	0		
		1	0	1	_	0		
		1	1	2	_	1		
		1	-2		1	0		
		1	-1	0		0		
		-2	0	-2	_	0		
		-2	1		1	0		
		-2	-2	0		1		
		-2	-1	1	_	1		
		-1	0	-1	_	0		
		-1	1	0	_	0		
		-1	-2	1		1		
		-1	-1	-2	2	0		