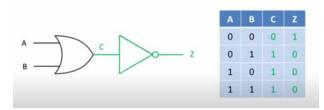
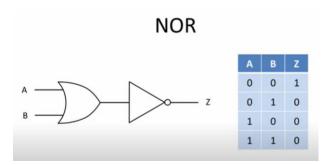
CSE Practices- Lab 2

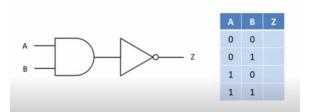
Predict Output

https://academo.org/demos/logic-gate-simulator/

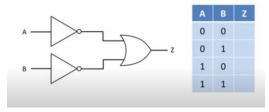




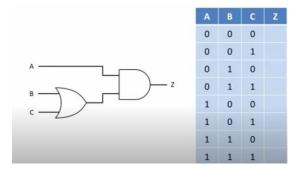
1

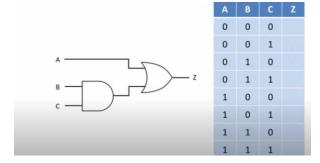


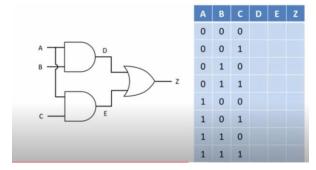
2

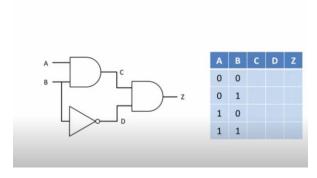


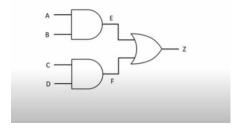
3



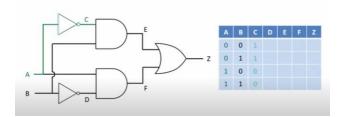








8



9. NAND,

10.NOR,

11.XOR

12 (1-7)

13 (1-7)

Convert Following Number to Binery/Hexadecimal

479, 789,9,1756,-8976,12549, 37.45

Hint: Convert 2.625 to binary.

We will consider the integer and fractional part separately.

The integral part is easy, 2 = 10. For the fractional part:

 $0.625 \times 2 = 1.25$ 1 Generate 1 and continue with the rest. $0.25 \times 2 = 0.5$ 0 Generate 0 and continue. $0.5 \times 2 = 1.0$ 1 Generate 1 and nothing remains.

14. Convert Text to ASCII (and 15. binary to ascii text)

Your address

Single character,

Special characters

https://www.browserling.com/tools/text-to-ascii

https://www.binaryhexconverter.com/binary-to-ascii-text-converter

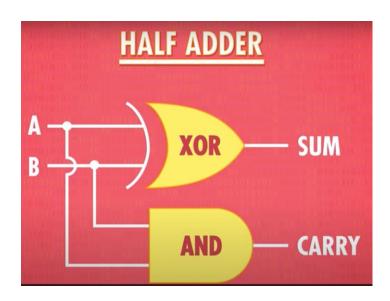
ASCII TABLE

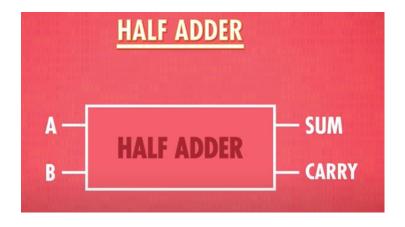
Decimal	Нех	Char	Decimal	Нех	Char	_I Decimal	Нех	Char	_I Decimal	Hex	Char
0	0	[NULL]	32	20	[SPACE]	64	40	@	96	60	`
1	1	[START OF HEADING]	33	21	1	65	41	Α	97	61	a
2	2	[START OF TEXT]	34	22	"	66	42	В	98	62	b
3	3	[END OF TEXT]	35	23	#	67	43	С	99	63	c
4	4	[END OF TRANSMISSION]	36	24	\$	68	44	D	100	64	d
5	5	[ENQUIRY]	37	25	%	69	45	E	101	65	е
6	6	[ACKNOWLEDGE]	38	26	&	70	46	F	102	66	f
7	7	[BELL]	39	27	1	71	47	G	103	67	g
8	8	[BACKSPACE]	40	28	(72	48	H	104	68	ĥ
9	9	[HORIZONTAL TAB]	41	29)	73	49	1	105	69	1
10	Α	[LINE FEED]	42	2A	*	74	4A	J	106	6A	j
11	В	[VERTICAL TAB]	43	2B	+	75	4B	K	107	6B	k
12	C	[FORM FEED]	44	2C	,	76	4C	L	108	6C	1
13	D	[CARRIAGE RETURN]	45	2D	-	77	4D	M	109	6D	m
14	Е	[SHIFT OUT]	46	2E		78	4E	N	110	6E	n
15	F	[SHIFT IN]	47	2F	/	79	4F	0	111	6F	0
16	10	[DATA LINK ESCAPE]	48	30	0	80	50	P	112	70	р
17	11	[DEVICE CONTROL 1]	49	31	1	81	51	Q	113	71	q
18	12	[DEVICE CONTROL 2]	50	32	2	82	52	R	114	72	r.
19	13	[DEVICE CONTROL 3]	51	33	3	83	53	S	115	73	s
20	14	[DEVICE CONTROL 4]	52	34	4	84	54	T	116	74	t
21	15	[NEGATIVE ACKNOWLEDGE]	53	35	5	85	55	U	117	75	u
22	16	[SYNCHRONOUS IDLE]	54	36	6	86	56	v	118	76	v
23	17	[ENG OF TRANS. BLOCK]	55	37	7	87	57	w	119	77	w
24	18	[CANCEL]	56	38	8	88	58	X	120	78	x
25	19	[END OF MEDIUM]	57	39	9	89	59	Υ	121	79	V
26	1A	[SUBSTITUTE]	58	3A	:	90	5A	Z	122	7A	z
27	1B	[ESCAPE]	59	3B	;	91	5B	[123	7B	{
28	1C	[FILE SEPARATOR]	60	3C	<	92	5C	\	124	7C	Ĩ
29	1D	[GROUP SEPARATOR]	61	3D	=	93	5D	1	125	7D	}
30	1E	[RECORD SEPARATOR]	62	3E	>	94	5E	^	126	7E	~
31	1F	[UNIT SEPARATOR]	63	3F	?	95	5F		127	7F	[DEL]
		-						_	l		-

https://www.browserling.com/tools/text-to-ascii

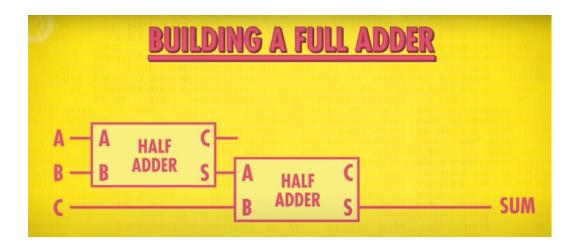
16. Adder

	A	UTS B	OUTP	
	0	0	0	0
	0	-1	0	1
	1	0	0	1
	1	-1	1	0
1000	es in a	- 7	KOR —	— SUN





FULL ADDER TABLE									
A	В	C	CARRY	SUM					
0	0	0	0	0					
0	0	1	0	1					
0	1	0	0	1					
1	0	0	0	1					
0	1	1	1	0					
1	1	0	1	0					
		1	1						



Built 4, 6, 8 bit full adder

17. Build Subtractor