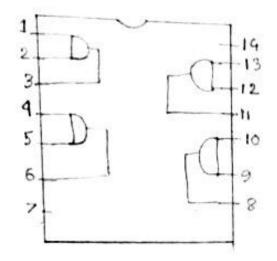


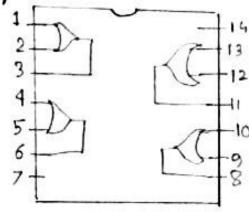
A -7408

Implimentation of Basic gates:

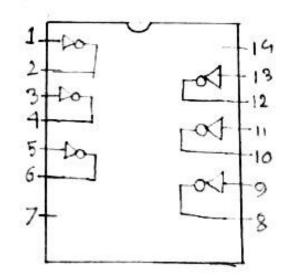
AND Lip 1C:



OR clip IC:

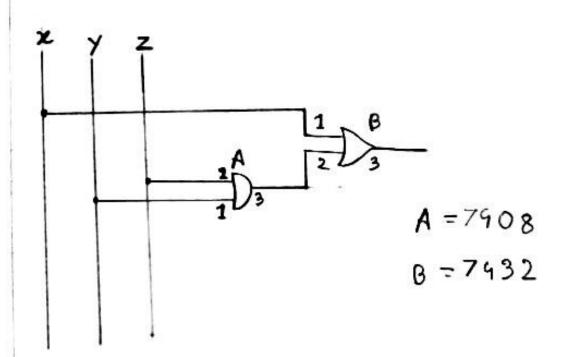


NOT chip IC:



	7	2	2	>	Y	Z	XX	xx	Yz	γz	χγz	27+24	f,= x+yz	f=xyz+xz	f=(x++x'y)
0		3						7	0	1	0	0	0	0	0
0	0	1	- :	1	1	0	0	0	1	0	0	0	0	1	0
0	-			1		1	0	1	0	0	o	1	0	٥	1
0	1	1	1		٥	0	0	1	1	Ł	0	1	1	1	0
1	0	6	0		1	1	0	٥	0	0	0	0	1	0	٥
L	0	1	0	1	1	0	0	0	o	0	1	0	1	1	0
.	1	0	0	c	s	1	1	0	0	0	0	1	1	0	1
1	1	1	0	G	1	3	1	0	0	1	0	1	1	0	.0

Output expression:



Name of the engeriment.

Implimation of simple function:

i) f = x+yz

i) f = xyz+x'z

ii) f = (xy+x'y)z'

Objective:
Implimenting the given booken function using basic logic gates. Also, if possible, simplified the given function to minimize the total cost.

Instruments:

NAND chip IC - 1 piece (IC-7908)

11) OR chip IC - 1 piece (IC-7432)

11) NOT chip IC - 1 piece (IC-7404)

11) NOT chip IC - 1 piece (IC-7404)

11) Weries

N) Bread-board

OR Grate

×	Y	F	
0	0	0	
0	1	1	
1	0	1	
1	1	1	

Output Expression: AND Crate:

$$F = \bar{z}$$

Block Diagram

1) AND Grate:

Name of the Experiment: Implimentation of the basic gate.

Objective:

The objective of the enperiment is to understand how the basic boolean logic gates work and to impliment them in digital chil.

Instrument:

1) AND elip IC-1 pioc (IC7408)

1) OR lip IC-1 piece (IC-7432)

11) NOT Lip IC-1 piece (IC-7404)

14) Wires

Truth toble:

AND Grate

×	У	F	
0	0	0	
0	1	0	
1	0	0	
1		1	

NOT Gate

7	F
0	1
1	0