# Objective:

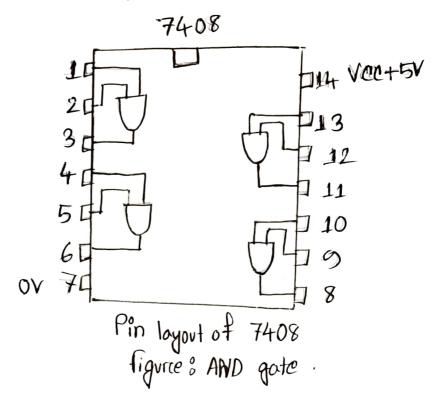
· To ged Familianized with fundamental logic gates and demonstrate the input output relationship of 2. input AND (IC - 7408), OR (IC - 7432) and NOT (IC - 7404) godes by constructing their touch tables.

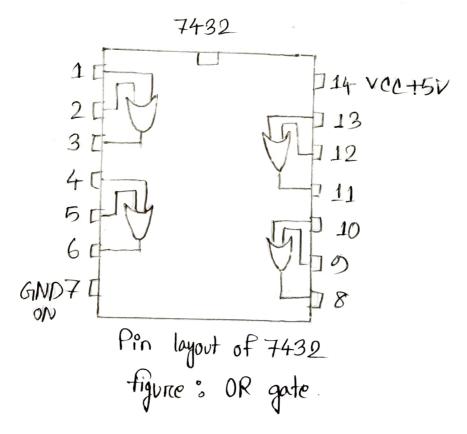
· To get familiarized with other logic gates like NAND (IC-7400), NOR (IC-7402) XOR (IC-7486) and XNOR (IC-74266)

Required Components and Equipment:

- . Brocadboard
- · Connecting wines
- · IC 7400, IC 7408, IC 7432, <del>IC 7406</del>, IC 7404, IC 7402, IC - 7486, IC - 74266

#### Experimental Setup:





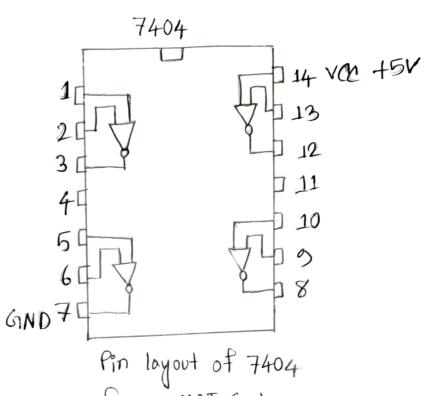
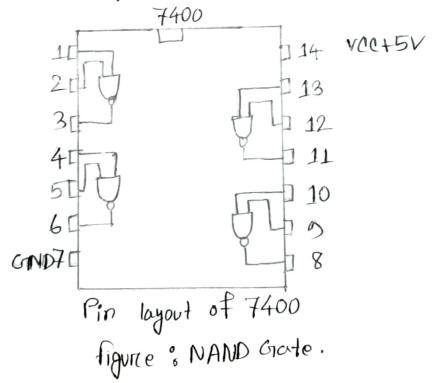


figure : NOT Grate



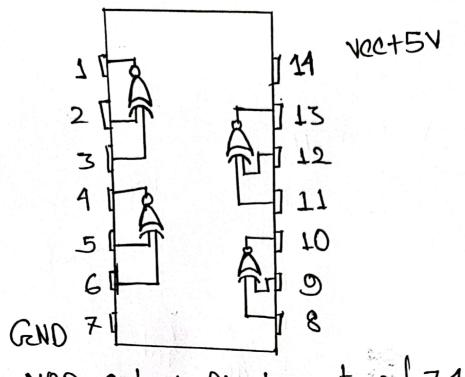


fig: NOR gate; Pin Layout of 7402

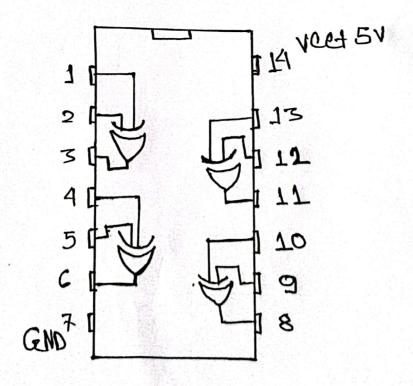


fig: XOR gate, pin layout of 7486.

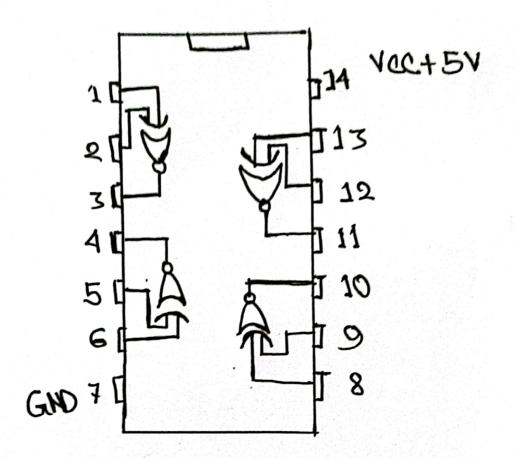


Fig: X-NOR Gate, pin Layout of 74244

### Results:

## . Though Table:

### · AND Gate

	Input		1
-	A	B	Sudput
Contract of the last of the la	0	0	D
for anything the same of	1	0	0
	0	1	0
	1	1	1

### . OR Gate

Inc	sut	7 1
A	13	Sugful
0	0	D
1	0	1
0	1	1
1	1	1

#### · NOT Gale

Input	lughuo
0	1
1	0

### · NAND Gate

T	16	L	Dupput
A		B	γων
0		0	1
1	_	0	Δ
0		1	1
1	-	1	0

### · NOR Gate

Input		
A	B	Dusput
0	0	Δ
1	O	0
0	1	0
1	1	0

# · XOIR Gate

Inp	two	
A	B	trapho
0	D	0
1	0	1
0	1	1
Δ	1	0

### · XNOR Gate

	Inpud		600
	A	B	Dudpud
510	0	0	1
	1	0	б
	0	1	0
	1	1	1

#### Discussion:

- · Problem withe some Faulty wines:
- · Problem with some Faulty IC units.
- · Every gate gives their output according to the touth table.