Q1) Convert hexadecimal to binary 24F.

Given hexadecimal no = 124F

→ First converting hexadecimal to decimal

$(24F)_{16} = (2 \times 16^2) + (4 \times 16^1) + (15 \times 16^0)$

$= 512 + 64 + 15$

$= (591)_{10}$

→ Now converting $(591)_{10}$ to binary

2	591	
2	295	1
2	147	1
2	73	1
2	36	1
2	18	0
2	9	0
2	4	1
2	2	0
	1	0

∴ The binary no. is $(1001001111)_2$

2) Convert any one octal to binary.

Let the octal number be $(540)_8$

5 can be written as 101 in binary

4 can be written as 100 in binary

0 can be written as 000 in binary

Hence $(540)_8 = (101\ 100\ 000)_2$

$= (101100000)_2$

Q3) Create Inputs and outputs Dominos Pizza store and web site.

For Domino's Pizza Store and web site, the inputs would be

→ User have to provide their details like name, address, .

→ User then selects their preference and orders. Domino's keep a track of customer's preference and shows items accordingly.

Outputs →

→ The bill would be generated

→ Cost of ingredients, delivery process all needs to be considered by Domino's.

5) Create logic numbers to compare 2 sets of no.

The truth table is

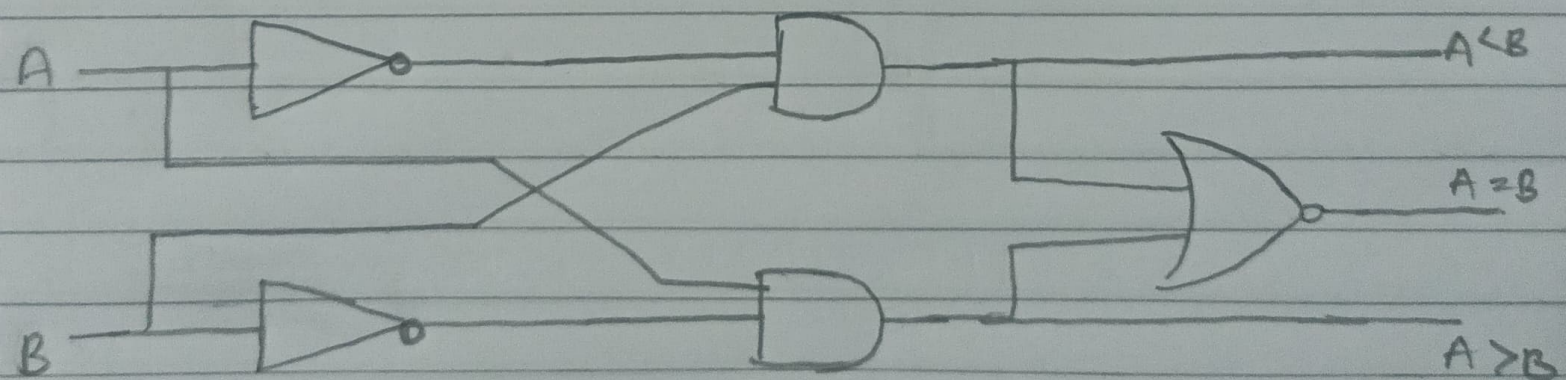
A	B	A < B	A = B	A > B
0	0	0	1	0
0	1	1	0	0
1	0	0	0	1
1	1	0	1	0.

From the truth table each output can be expressed as

$A > B = A\bar{B}$

$A < B = \bar{A}B$

$A = B = \bar{A}\bar{B} + AB.$



Logic Gate Diagram