## Day 2

#### OR Gate

# Theory –

It perform the logical OR operation ie if any input is 1 then the output is 1 and if all the input is zero then the output is zero.

# Symbol:-

$$x_1$$
 $x_2$ 
 $x_1 + x_2$ 

Expression -

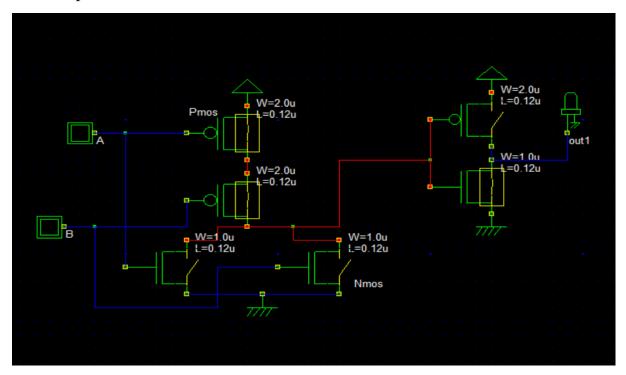
A or 
$$B = Y$$

# Truth table:-

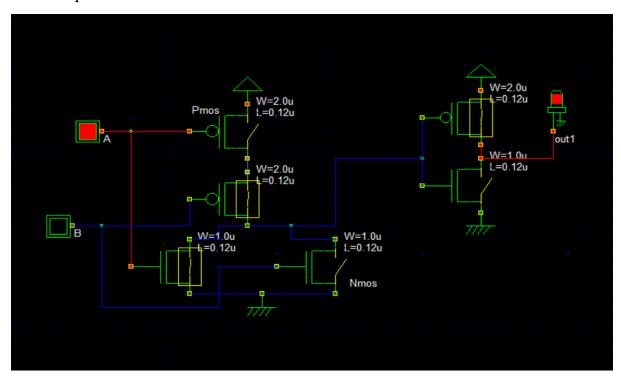
<b>X</b> 1	<b>X1</b>	Y(output)
0	0	0
0	1	1
1	0	1
1	1	1

#### **OR\_GATE Using PMOS and NMOS**

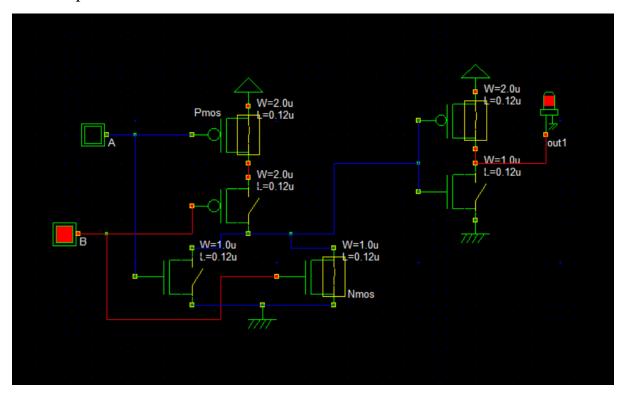
When input is : A=0 and B=0



# When input is : A=1 and B=0



## When input is : A=0 and B=1



## When input is : A=1 and B=1

