CPEN 312

SASAN GHASAE

LAB 1

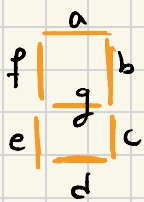
Jan 29th. 2024

Last two digits of my student number:

91

$\Rightarrow 9+1=10$

$10 \Rightarrow$ 3946



X	Y	F_a	F_b	F_c	F_d	F_e	F_f	F_g	
0	0	0	0	0	0	1	1	0	$\Rightarrow 3$
0	1	0	0	0	0	1	0	0	$\Rightarrow 9$
1	0	1	0	0	1	1	0	0	$\Rightarrow 4$
1	1	0	1	0	0	0	0	0	$\Rightarrow 6$

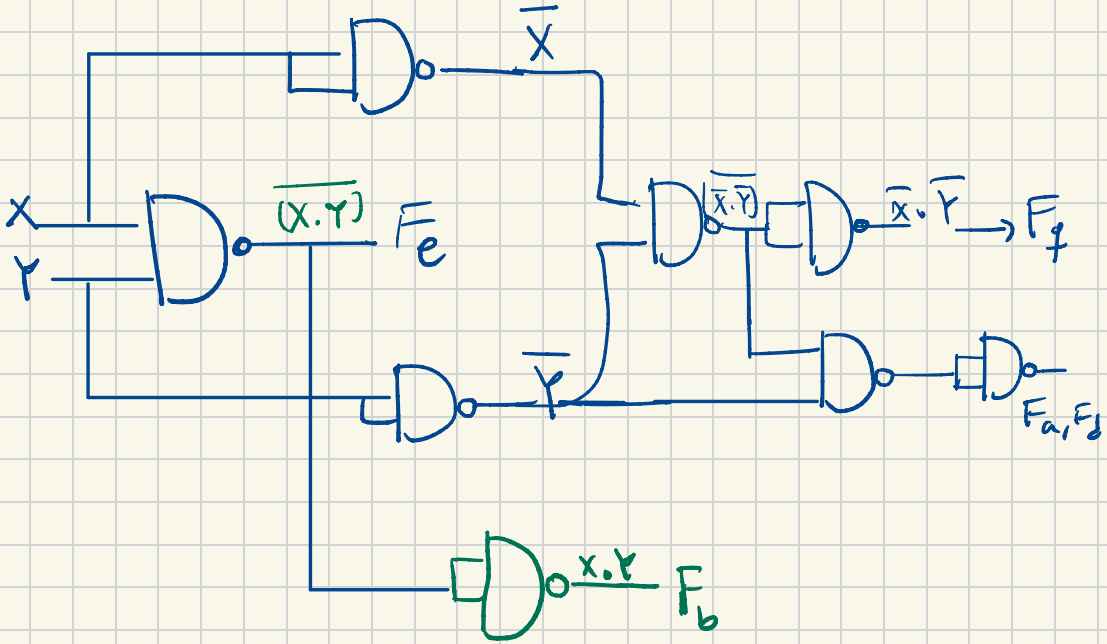
$F_c = F_g = 0$

$F_e = \overline{X} + \overline{Y} = \overline{(X.Y)}$

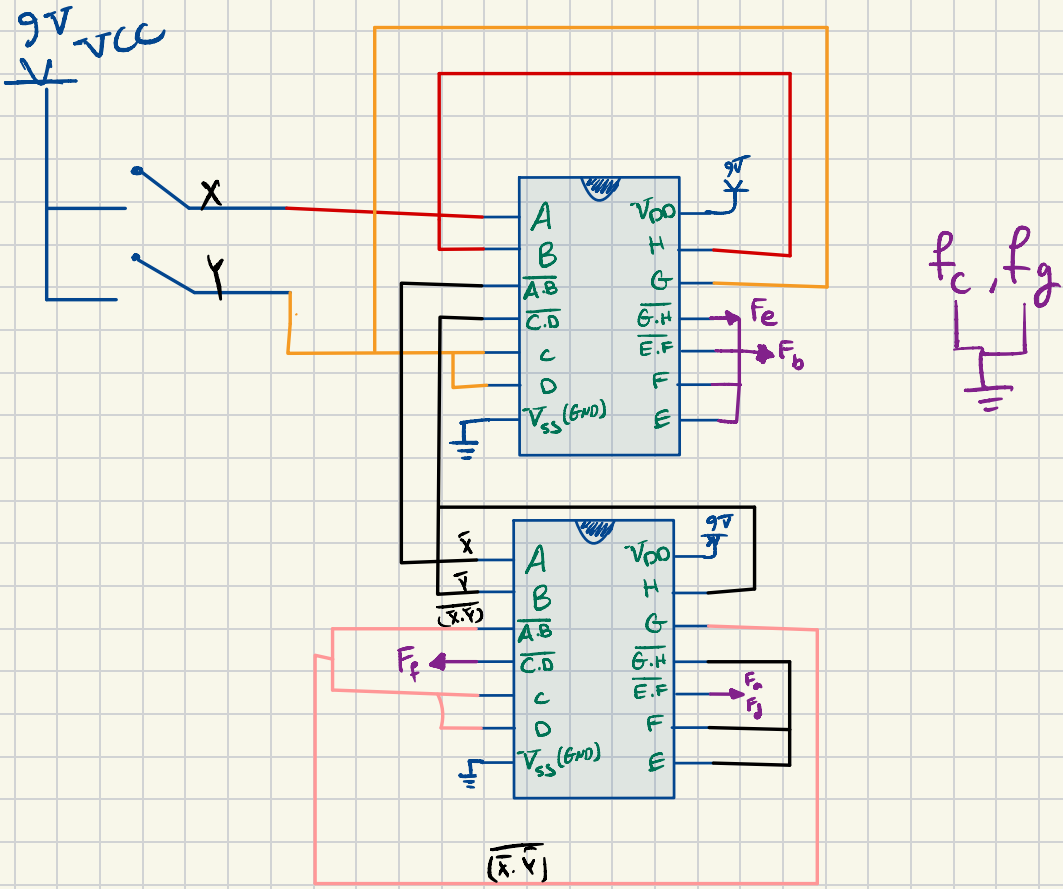
$F_a = F_d = X.\overline{Y}$

$F_f = \overline{X}.\overline{Y}$

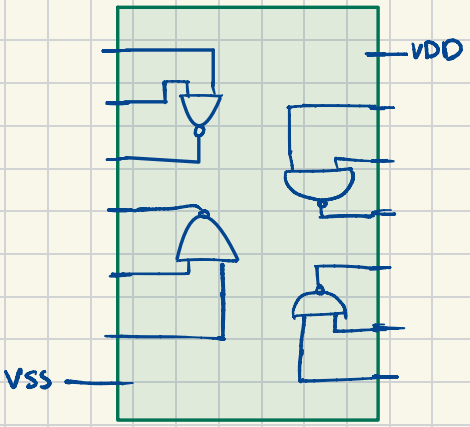
$F_b = X.Y$


X
Y
$\overline{(X.Y)}$
F_e
$\overline{X}$
$\overline{Y}$
$\overline{X.Y}$
$\overline{X}.\overline{Y}$
F_f
F_a, F_d
X.Y
F_b

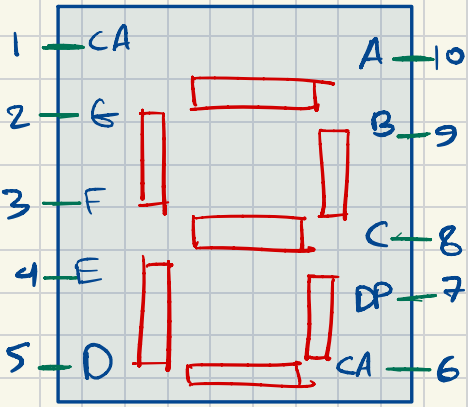
Circuit Diagrams:



PINOUT Diagrams:



CD 4011
NAND
gate



LSHD-F101