

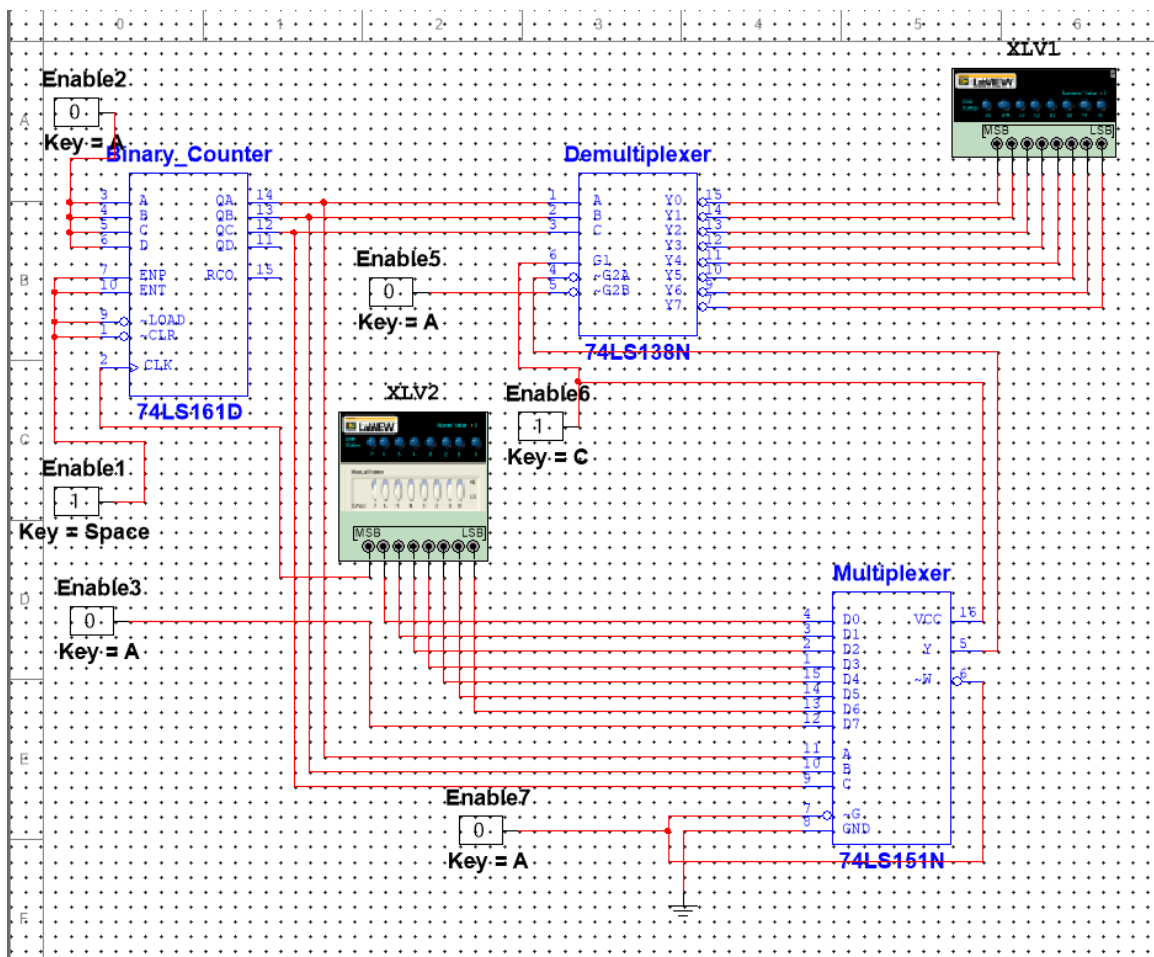
Prelab and Lab Quiz

Experiment 3

Jacob Howard

Prelab

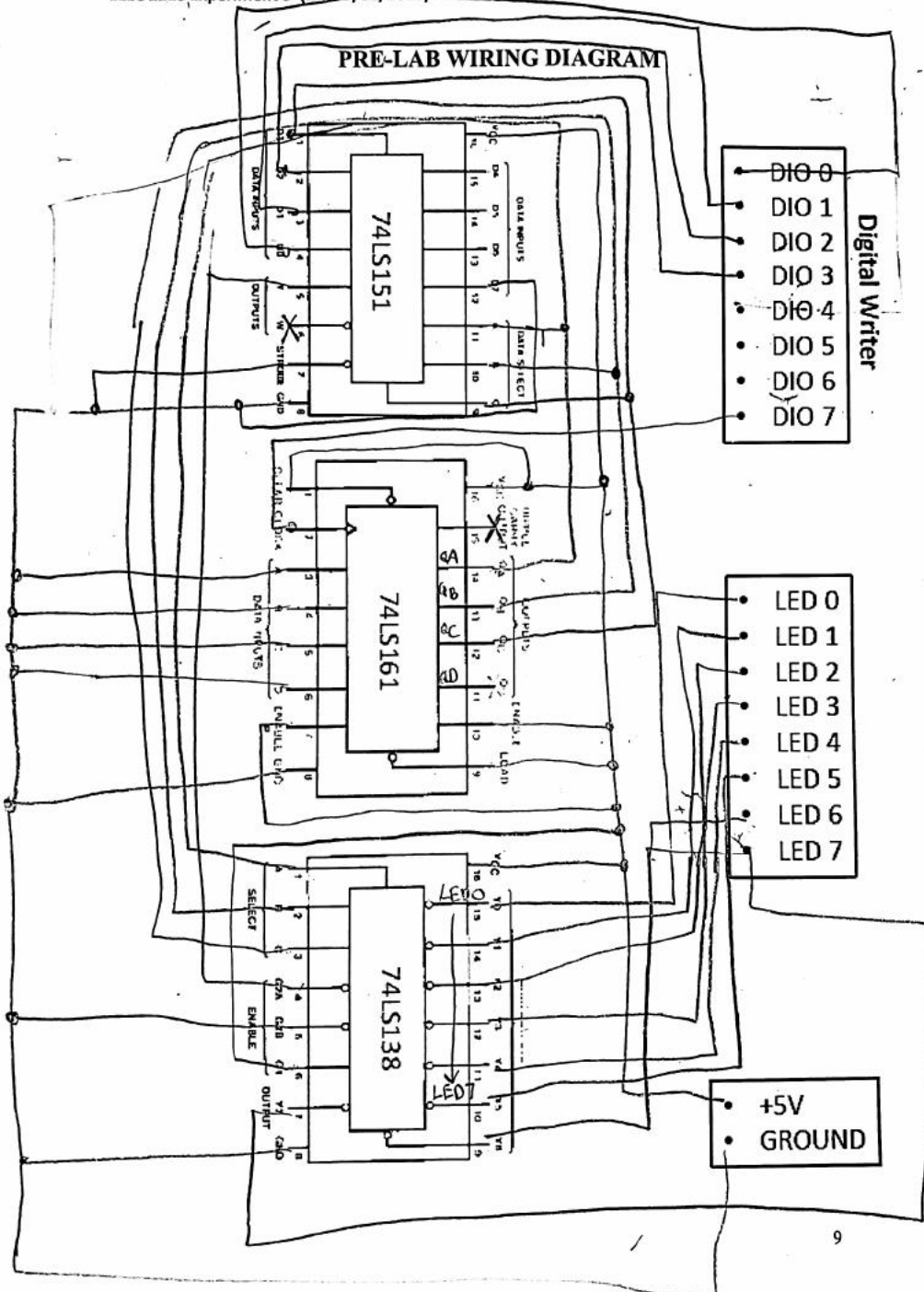
i) Multisim Circuit



ii) Prelab Drawn Circuit Design

Jacob Howard

ELEC 2210 Experiment 3 (Rev. 9/02/2011)



Lab Quiz

LAB Quiz

11) a)

ABC	Y
0 0 0	D ₀
0 0 1	D ₁
0 1 0	D ₂
0 1 1	D ₃
1 0 0	D ₄
1 0 1	D ₅
1 1 0	D ₆
1 1 1	D ₇

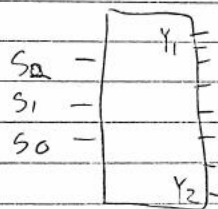
A=1
B=0
C=1

← D₅ is converted to Y

b) Y

$$\bar{A}\bar{B}C + \bar{A}\bar{B}\bar{C} + \bar{A}BC + A\bar{B}\bar{C} + A\bar{B}C + AB\bar{C} + ABC$$

②



$$\begin{aligned} S_2 &= 0 \\ S_1 &= 1 \\ S_0 &= 1 \end{aligned}$$

S ₂ S ₁ S ₀	Y
0 0 0	Y ₀
0 0 1	Y ₁
0 1 0	Y ₂
0 1 1	Y ₃ →
1 0 0	Y ₄
1 0 1	Y ₅
1 1 0	Y ₆
1 1 1	Y ₇