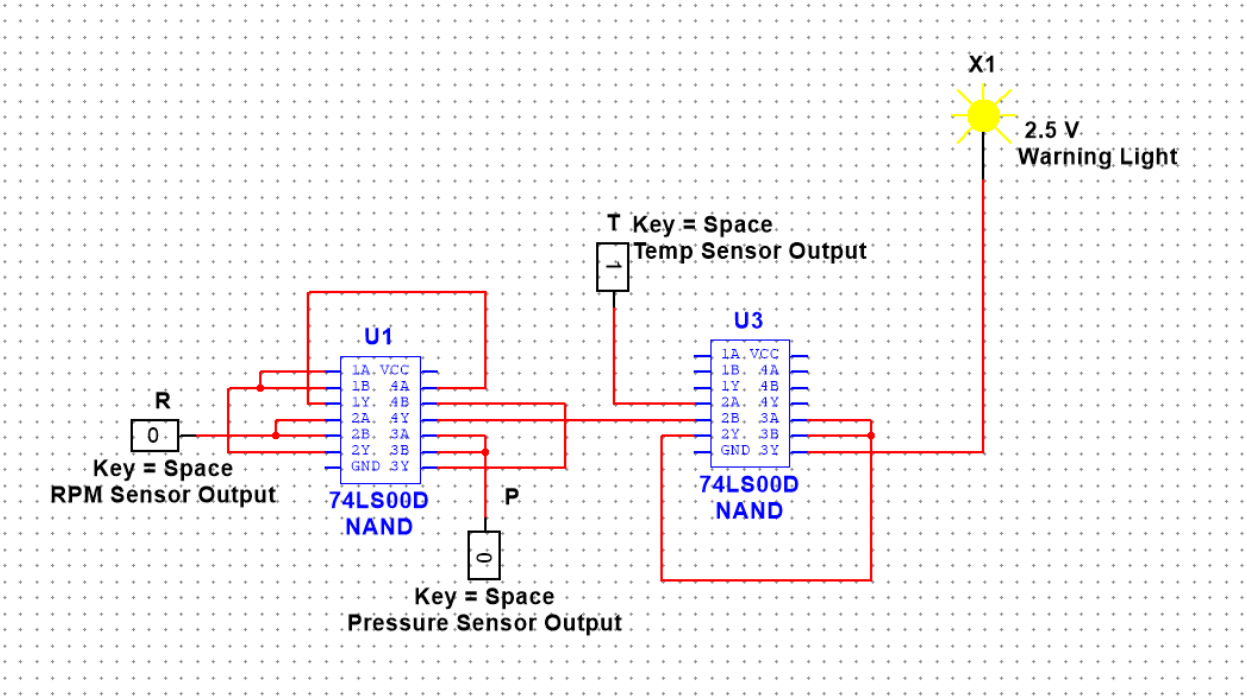
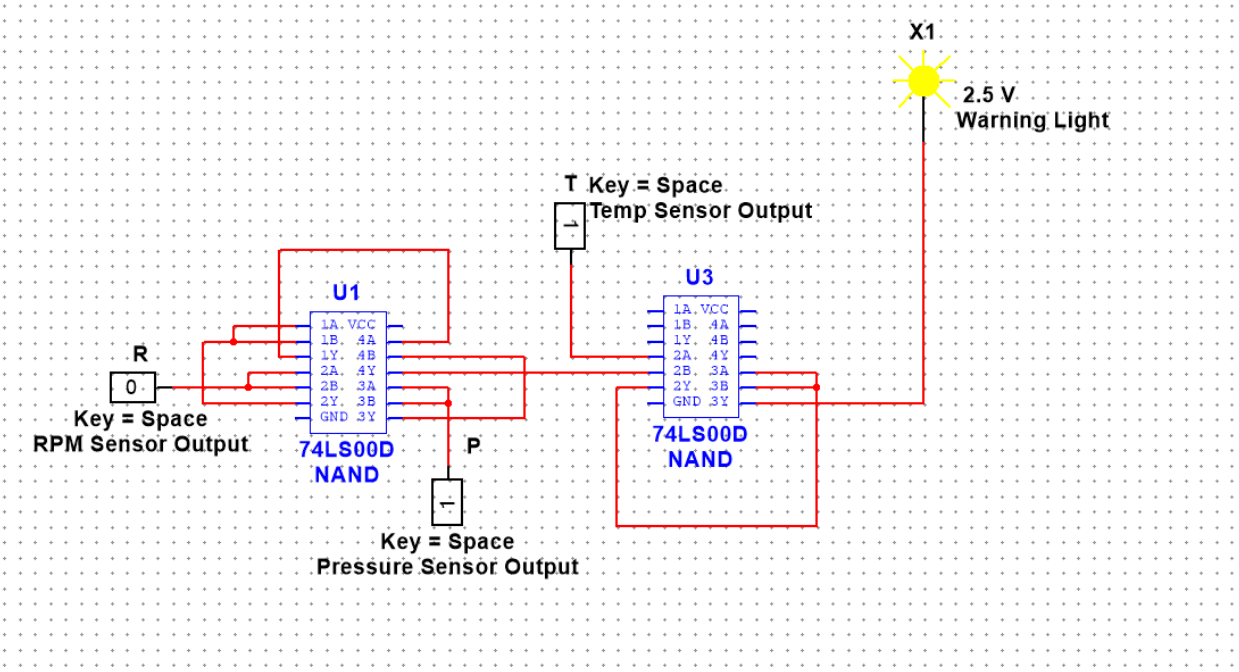
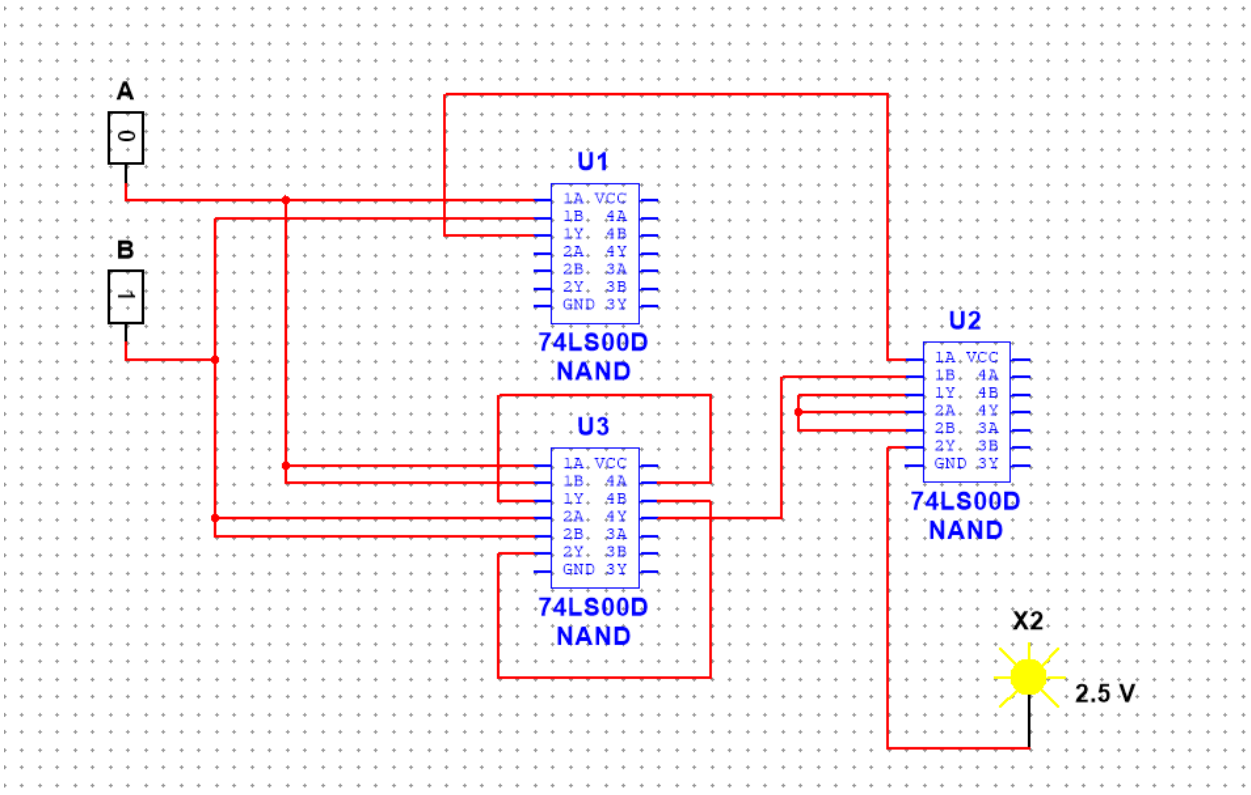
DACD LAB -4

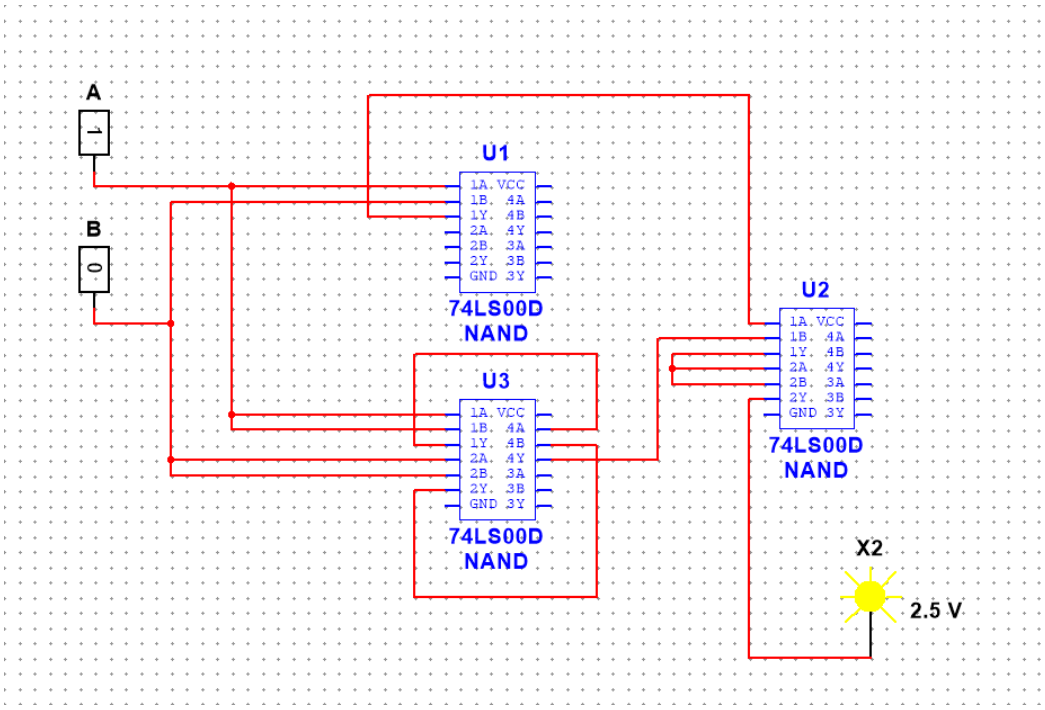
1) EQUATION IS T(P+R')
   Warning light works when T=1,and either P=1 or R=0 or both



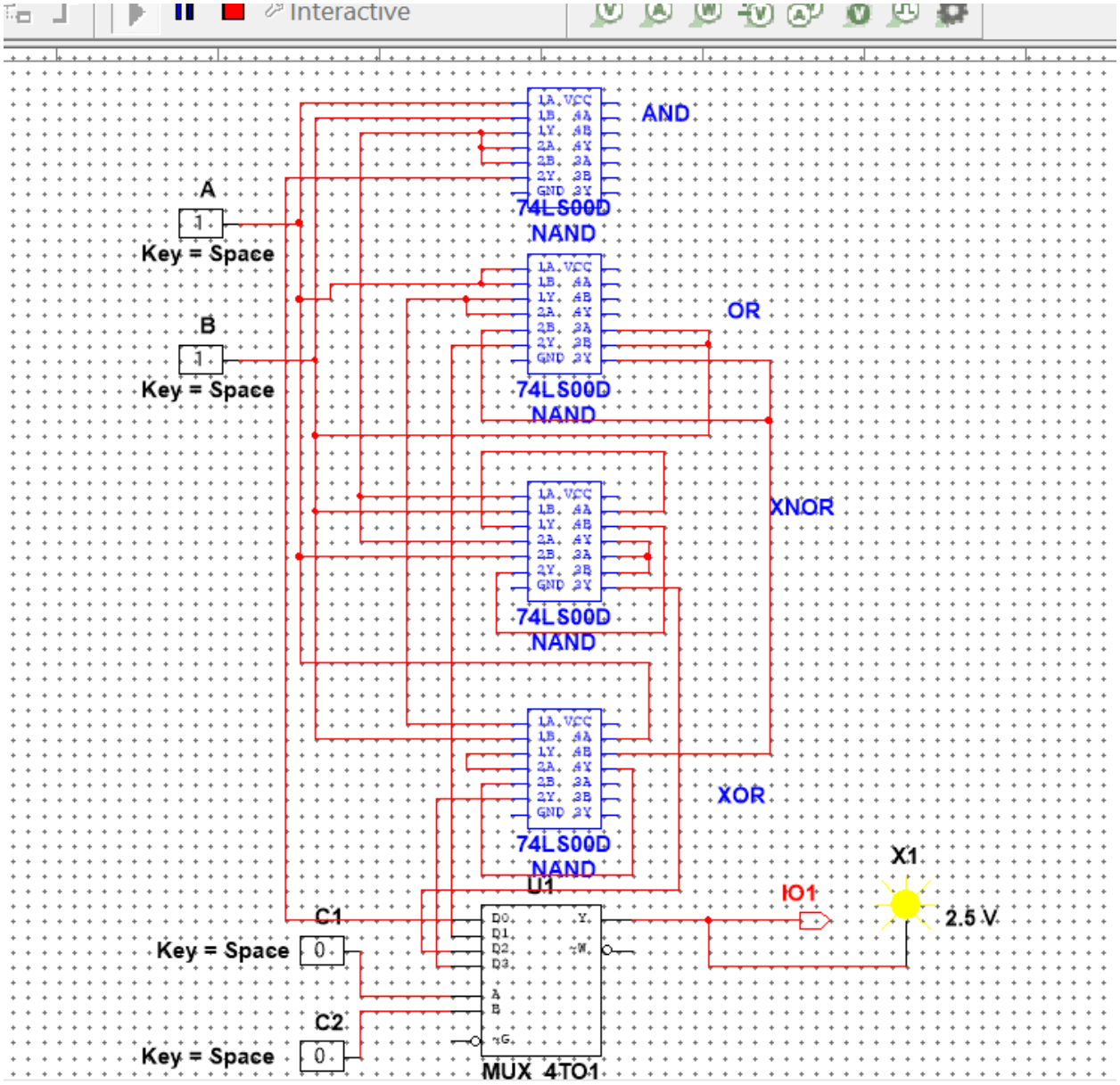


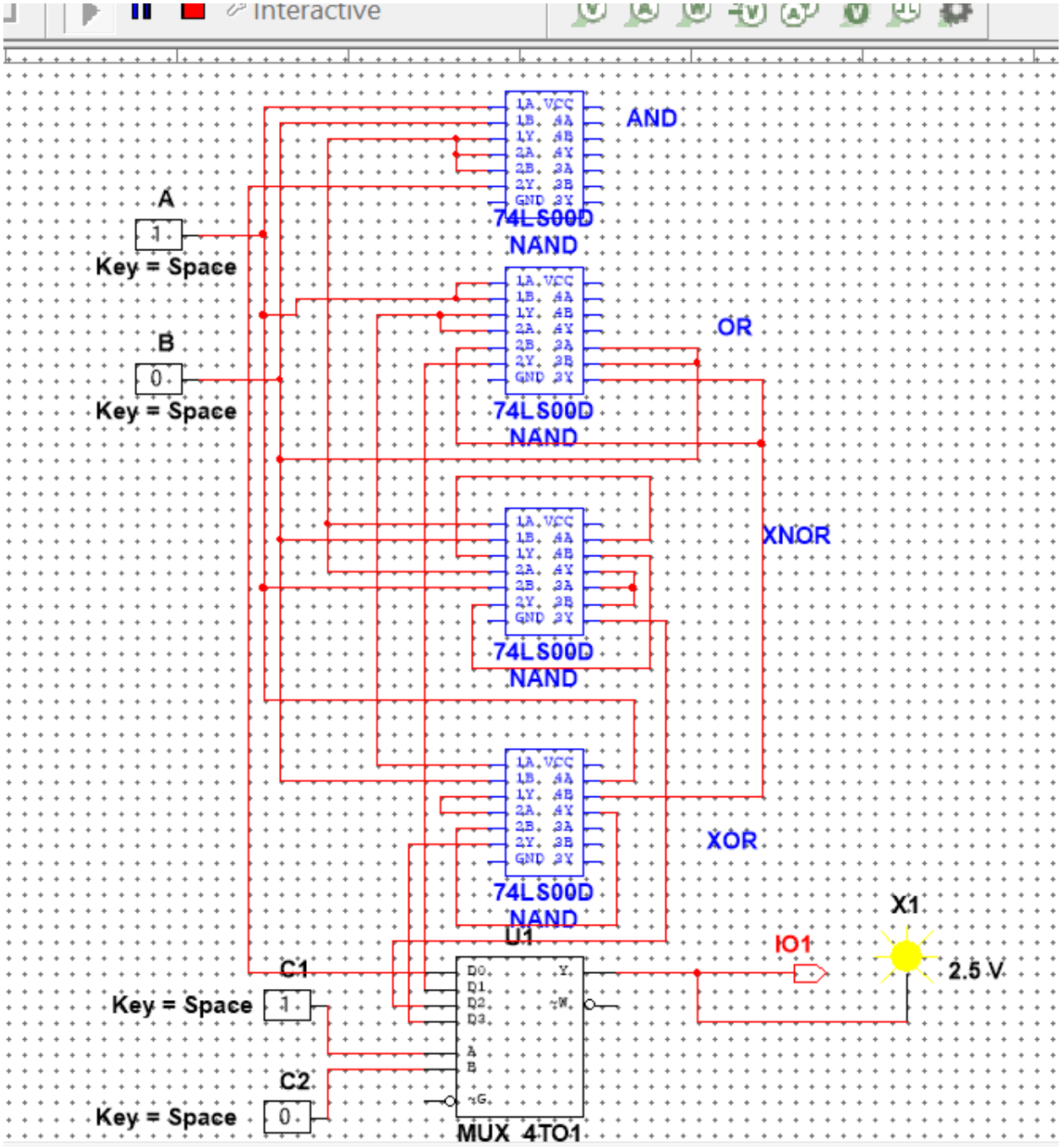
2) We get the equation as (AB+A'B')' WHICH ON SIMPLIFYING WE GET (AB)'(A'B')' . According to the question when the output is 0 bulb will glow

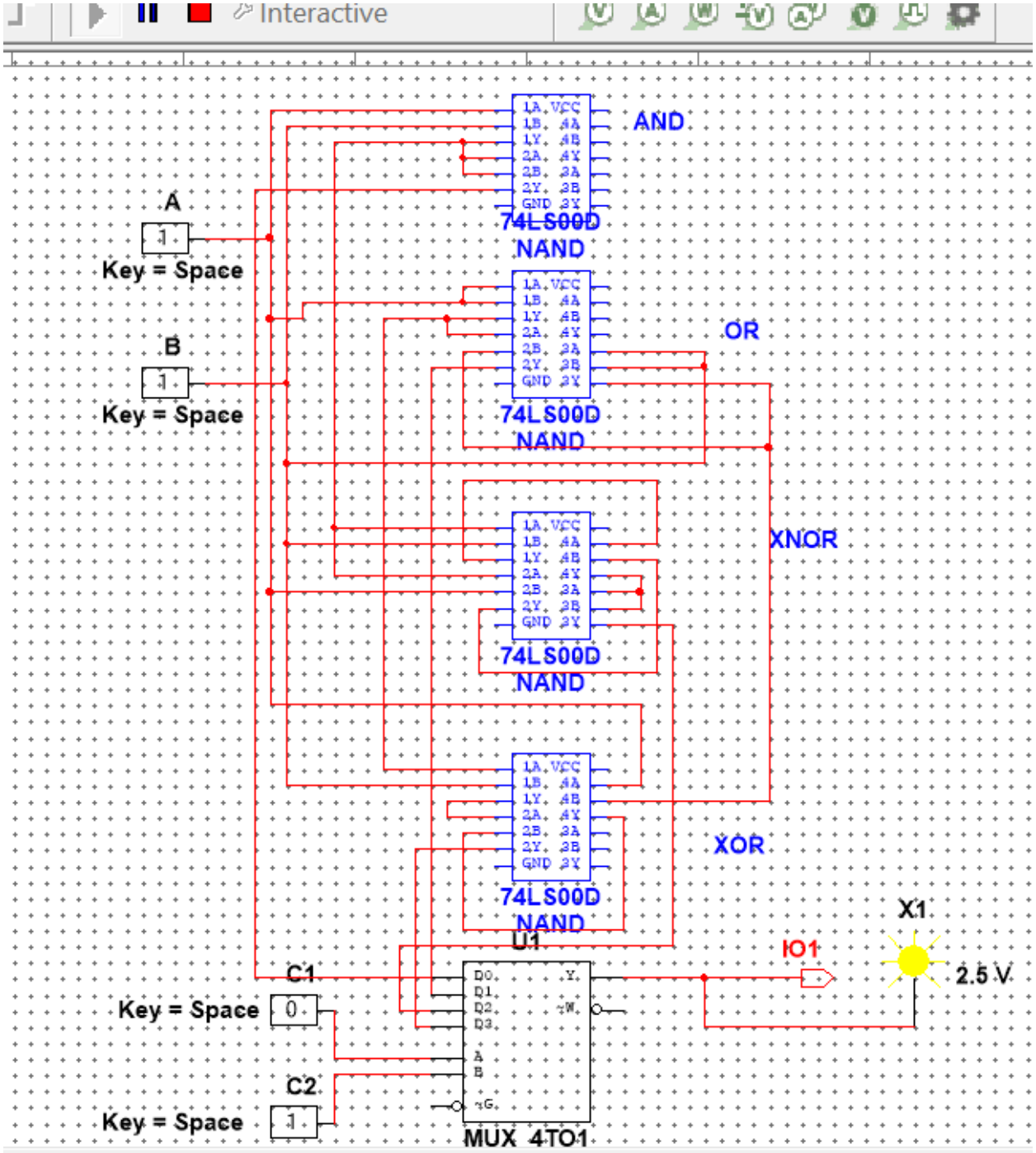




3)


Interactive
AND
74LS00D
NAND
A
1
Key = Space
B
1
Key = Space
OR
74LS00D
NAND
XNOR
74LS00D
NAND
XOR
74LS00D
NAND
U1
X1
IO1
2.5 V
C1
Key = Space
0
C2
Key = Space
0
MUX_4TO1


Interactive
AND
74LS00D
NAND
OR
XNOR
XOR
A
Key = Space
B
Key = Space
C1
Key = Space
C2
Key = Space
U1
MUX_4TO1
IO1
X1
2.5 V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AND
OR
XNOR
XOR
A
Key = Space
B
Key = Space
C1
Key = Space
C2
Key = Space
74LS00D
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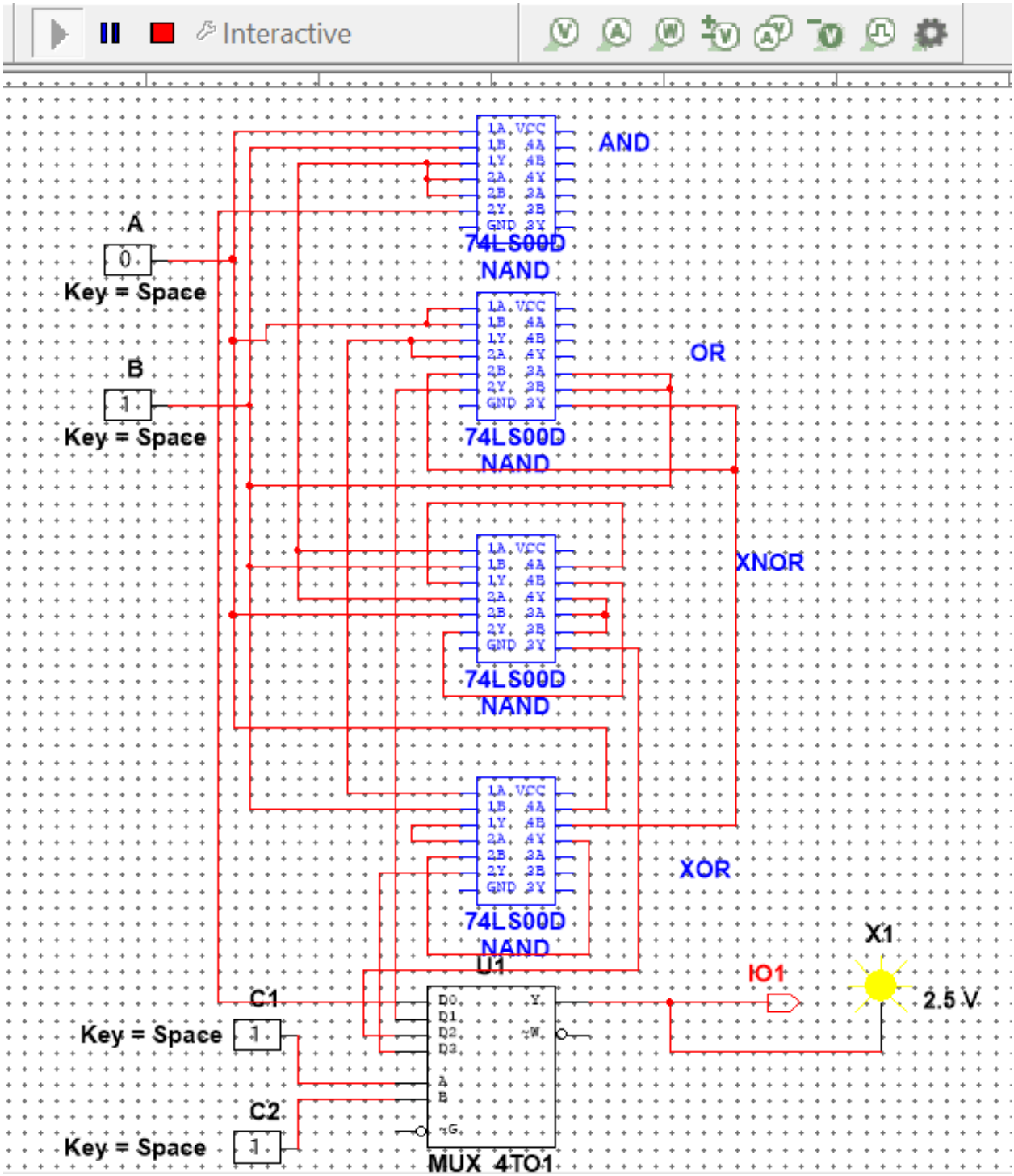
U1
MUX_4TO1
IO1
X1
2.5 V


Interactive
AND
74LS00D
NAND
A
0
Key = Space
B
1
Key = Space
OR
74LS00D
NAND
XNOR
74LS00D
NAND
XOR
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NAND
U1
X1
IO1
2.5 V
C1
Key = Space
1
C2
Key = Space
1
MUX_4TO1