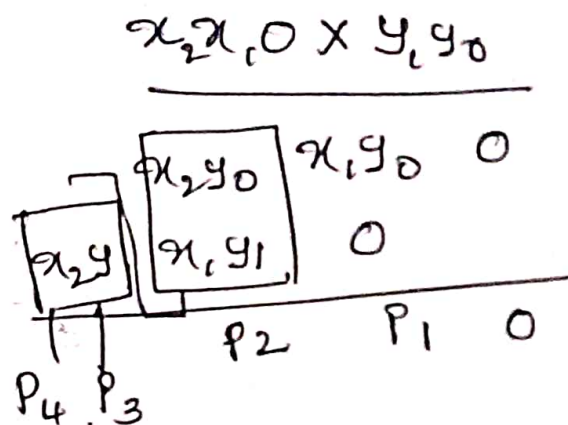
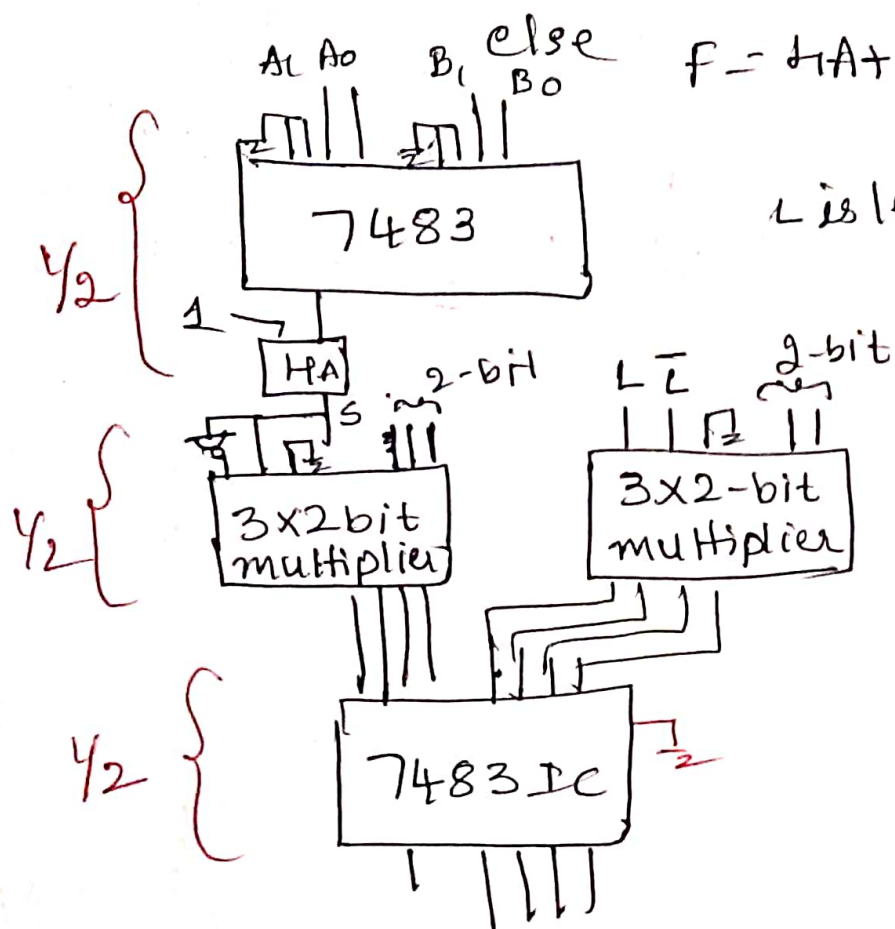


Ex 3-91: If $A < B$ $F = 2A + 4B$

else $F = 4A + 2B$

3 bit x 2-bit

L is less than



HA as AND gate: $4/2M$
Multiplier using $1M$
HA

Set 3 $\frac{1}{2}$
Excess - 3

0011
 0100
 0101
 0110
 0111
 1000
 1001
 1010
 1011
 1100

$\frac{1}{2} 3, 4, 5, 6, 7, 8, 9, 10, 11, 12$
5211 (Self complementary)

0000
 0001
 0011
 0101
 0111
 1000
 1001
 1010
 1100
 1111

$$Y_3 = \sum m(8, 9, 10, 11, 12)$$

$$Y_2 = \sum m(6, 7, 10, 11, 12)$$

$$Y_1 = \sum m(5, 7, 9, 11, 12)$$

$$Y_0 = \sum m(4, 5, 6, 7, 12)$$

