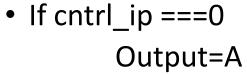
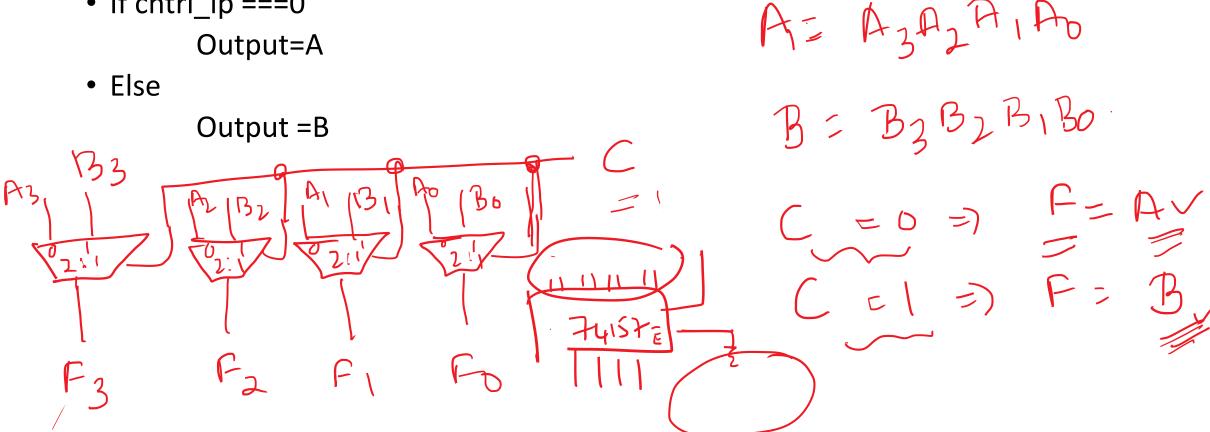
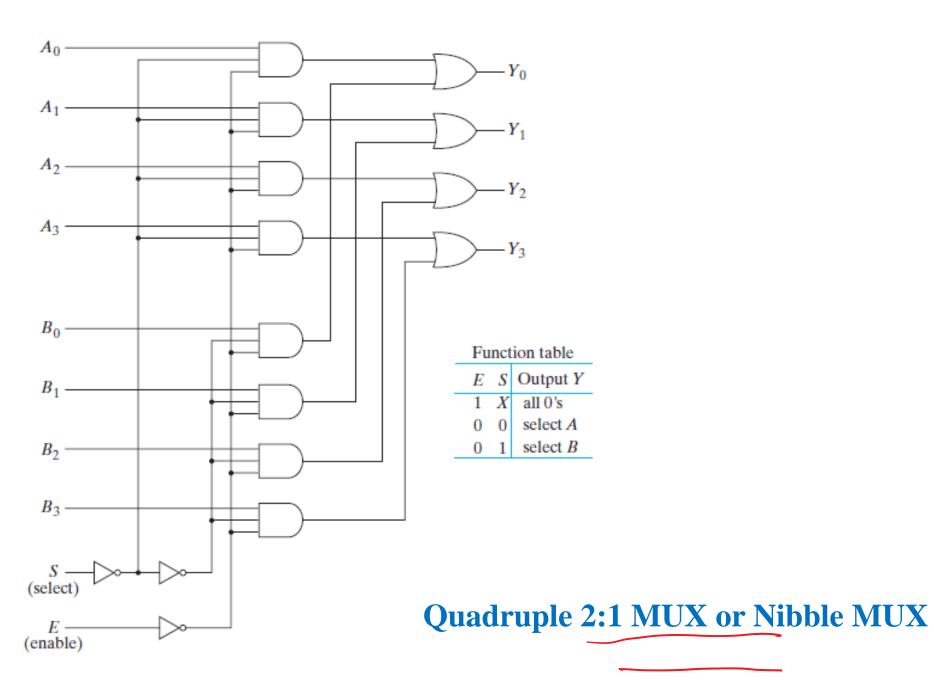
## Multiplexers

#### Nibble Multiplexer

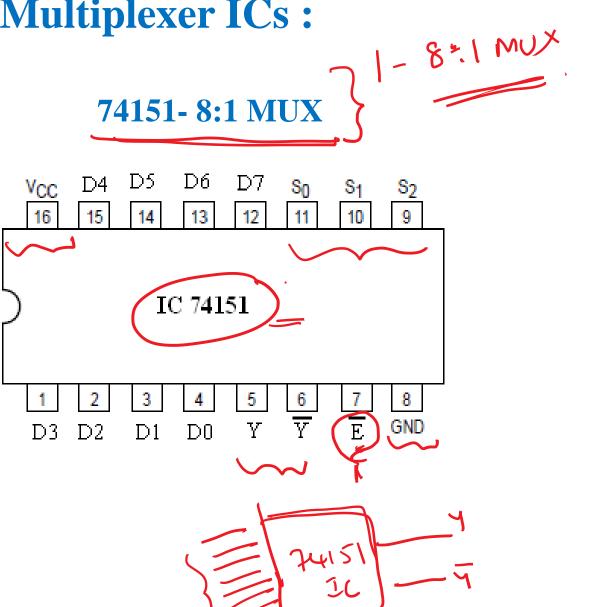
 A and B are two 4-bit numbers. Design a combinational circuit using suitable multiplexers according to following requirements.

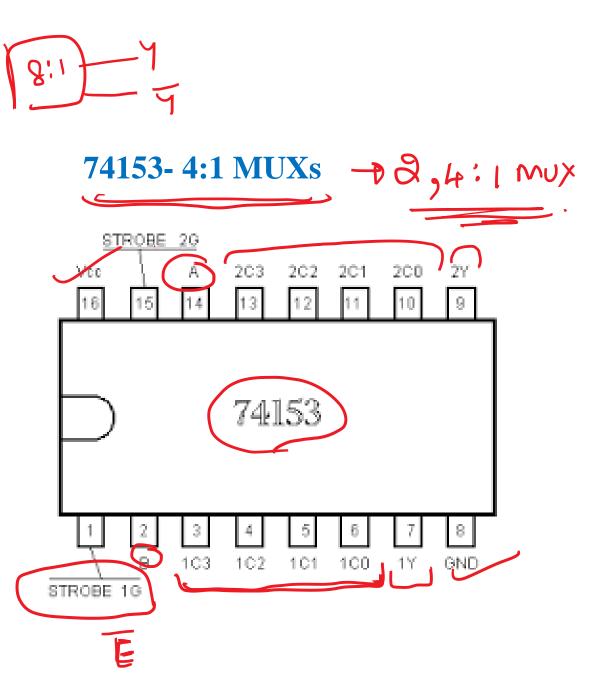




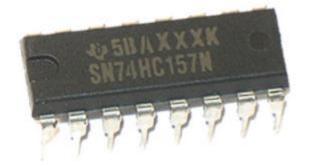


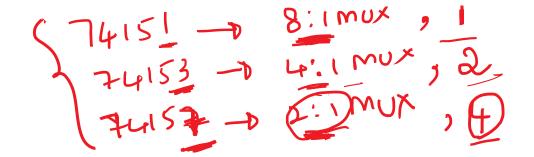
#### **Multiplexer ICs:**

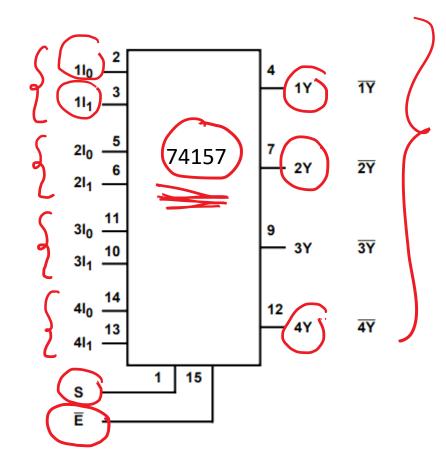


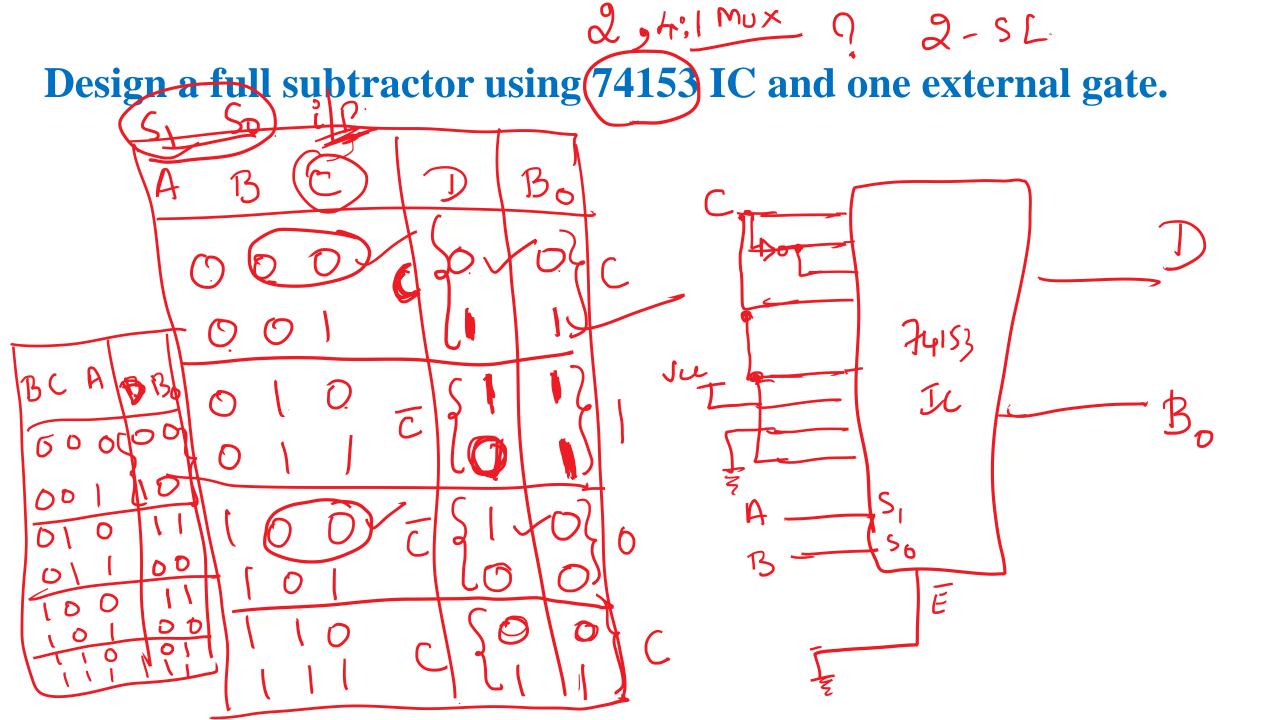


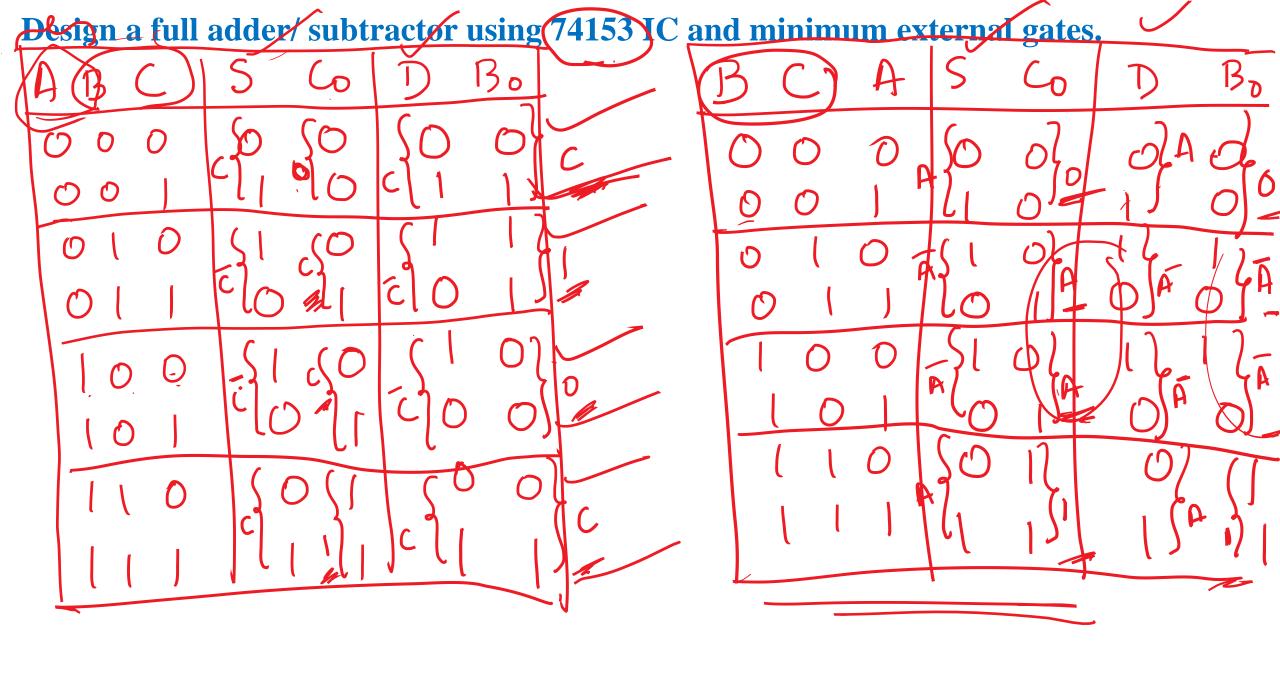
### 74157 Quad 2:1 MUX IC

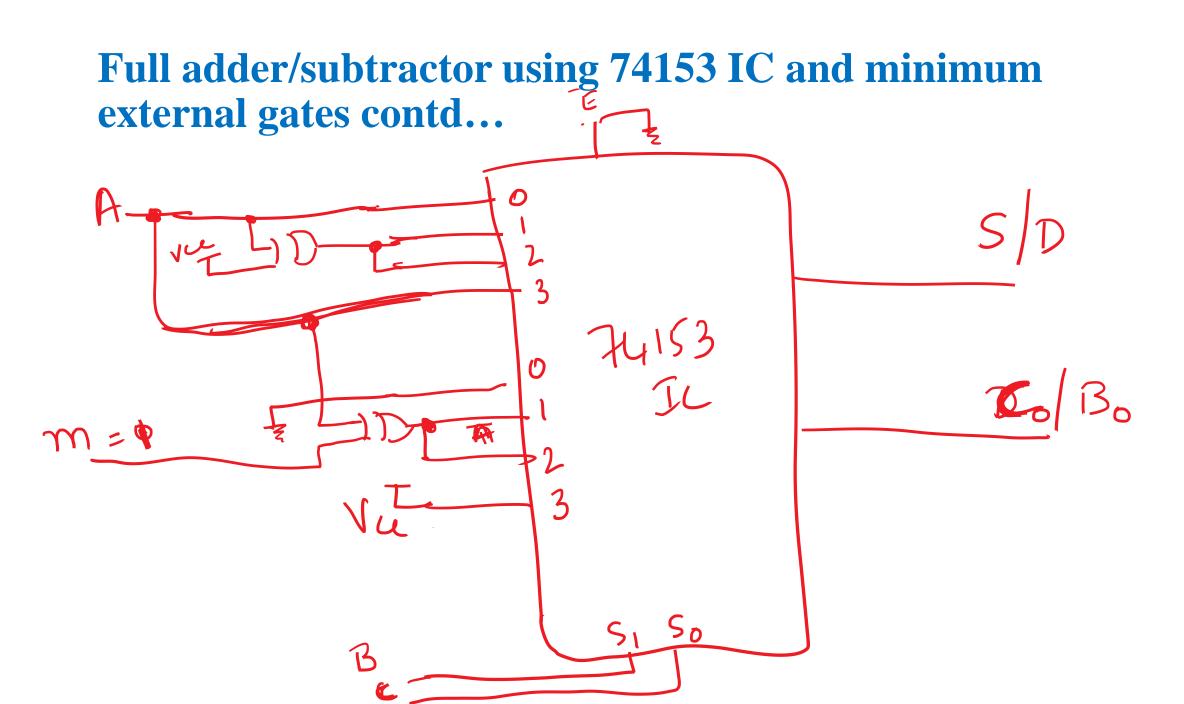












# **Exercise:** • Realize the Boolean expression $f(w,x,y,z) = \Sigma m(4,5,7,8,10,12,15)$ using • 74157 multiplexer and external gate MUX 74153 IC and external gates IMUX enternat Refer the prescribed book for additional problems 0 0

**Question?**