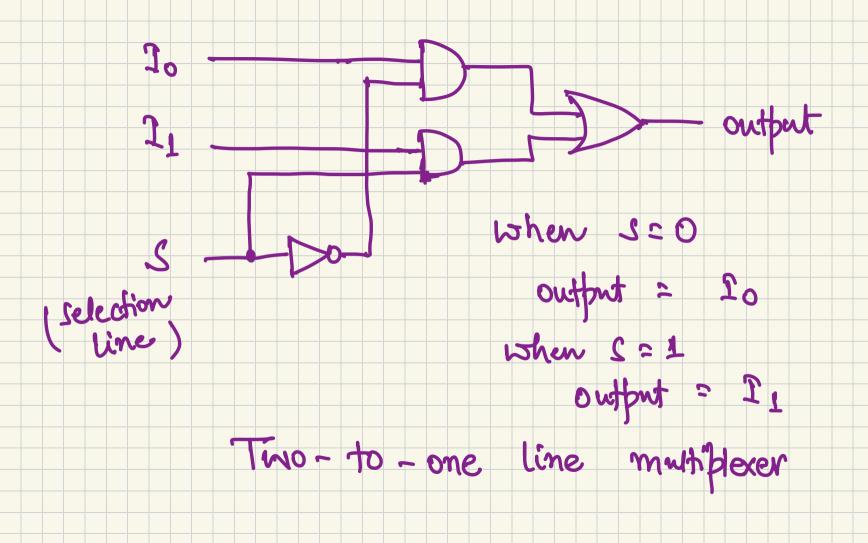
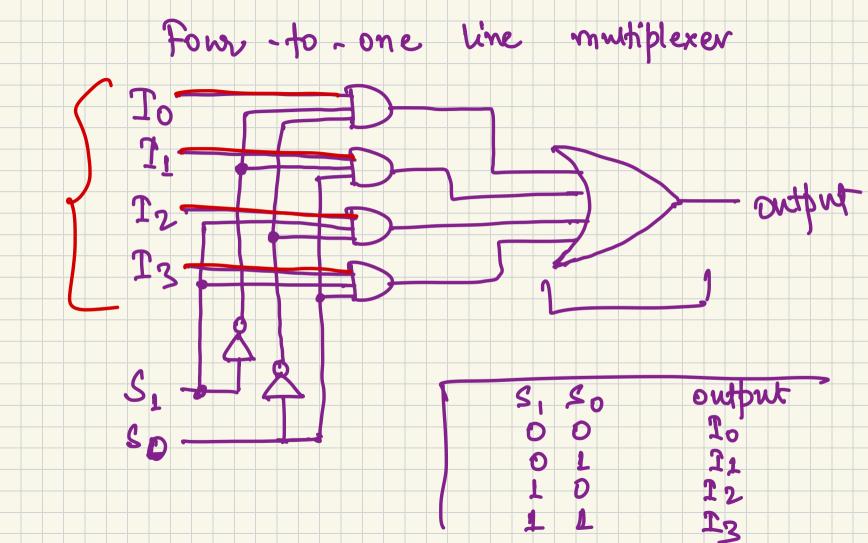
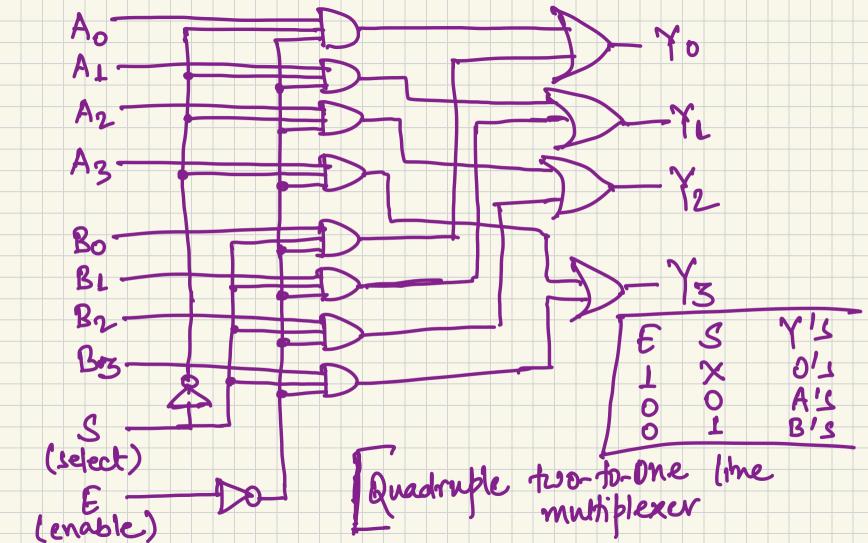
Multiplexers Acol 215 (28th oct.) Combinational circuits that Select binary information from one of many input lines and directs it



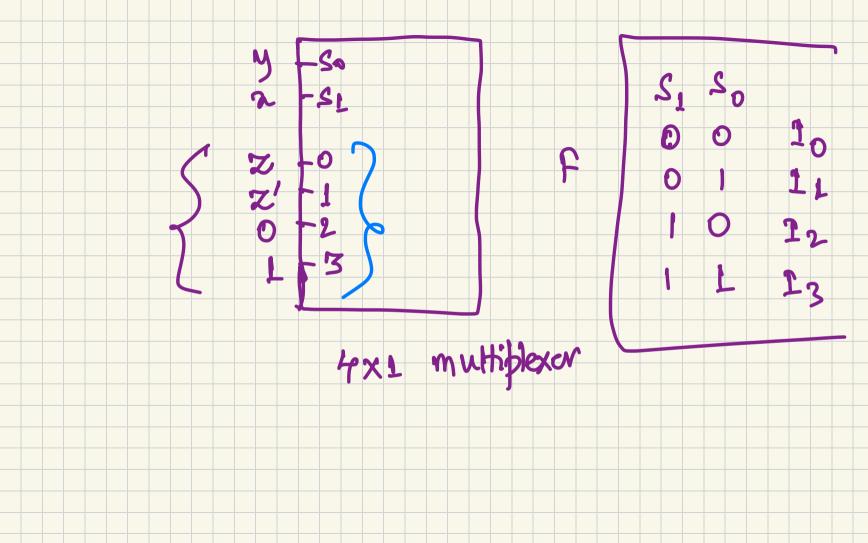


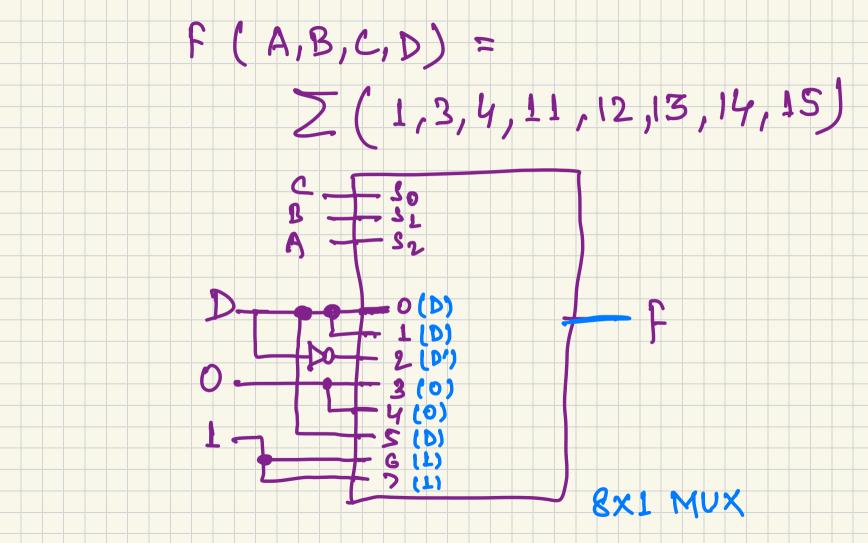
Block diagram output A muffiplexer is also called a data-selector. The AND gates (and the inverter gates) "decode" the selection input lines. A 2ⁿ-to-1 line mutiplexer is constructed from an n-to-2ⁿ line decoder by adding 2ⁿ input lines to it (one line to each AND gate) and the outputs of the AND gates are applied to a since OR gate.

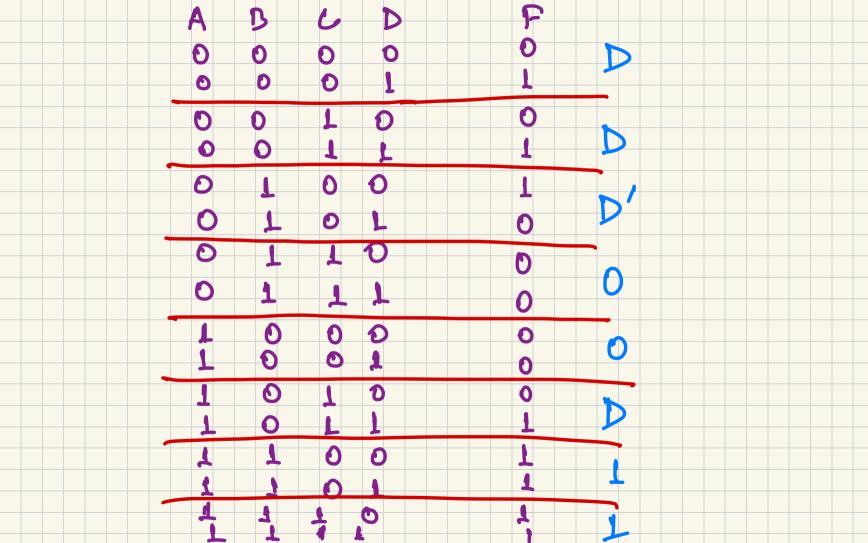
like in decovers, multiplexers
can also have an enable
input to control its operation. (Example on next slide)



Boolean Functions with Implement Muhiplexecc 0







Implement Exercise F(AB,C) = 2 (3,5,6,7) with a multiplexer. Reading Francises Three-state gates
(Page No. 204 in the book) Next class Jynchronous Sequential Rogic (chapter S).