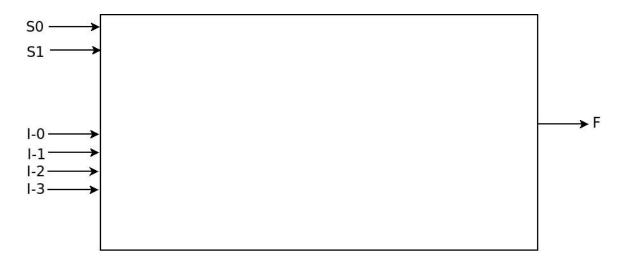
EGE UNIVERSITY LOGIC DESIGN LABORATORY EXPERIMENT-4

Decoders, Multiplexers

1- **Draw** the logic diagram of 2x4 decoder.



- 2- Connect the 2x4 decoder circuit you designed and check its operation.
- 3- **Draw** the logic diagram of 4x1 multiplexer.



- 4- Connect the 4x1 multiplexer circuit you designed and check its operation.
- 5- Implement the function F=X+Y using
- (a) the 2x4 decoder
- (b) the 4x1 multiplexer

you connected, and check its operation.

Required Equipment: 7408 AND, 7432 OR and 7404 NOT gates, switches for the inputs and leds for output.

