Experiment Name: Implementation of 4x1 MUX with basic gates.

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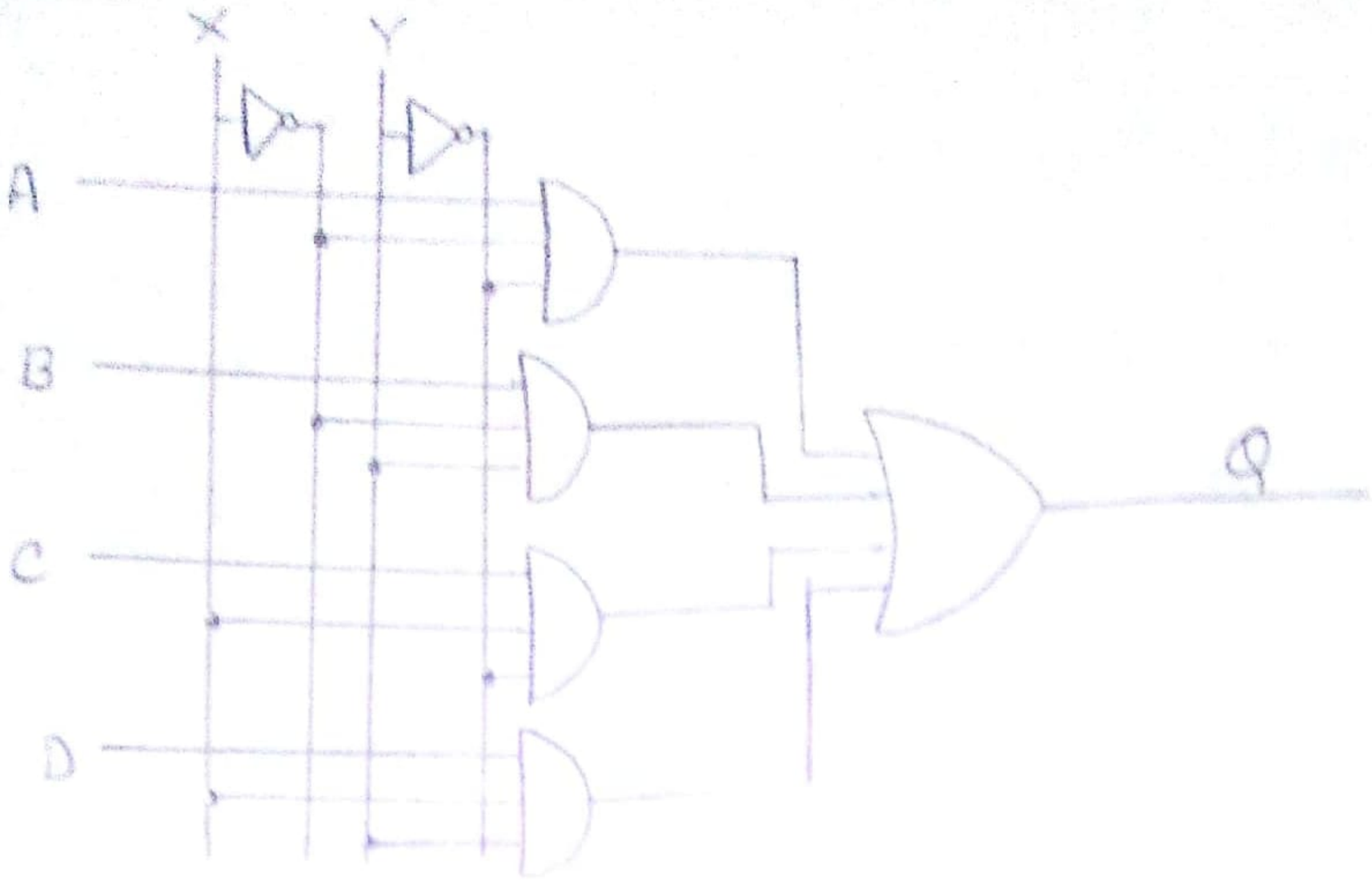
Theory: mux or Multiplexer is a digital logic circuit which is used to select and execute 1 line output from 2^n input line with help of n selector. For different state in selector different input line is being selected. It can be said that in MUX output is from input but it depend on selectors.

Instruments: wire, bread-board, power source and Mux IC.

Circuit:



Truth Table:

X	Y	O	Correct
0	0	A	✓
0	1	B	✓
1	0	C	✓
1	1	D	✓

Result and Discussion: Here we have designed a 4x1 MUX circuit with basic gates. We implemented the circuit and we got the same result we enpected. So the circuit and logics are right.

Pre-caustion:

1. Comect the circuit when design is complete
2. Please cheack the circuit before connecting.
3. Ware shoes in the lab.
4. After finishing experiment switch of the power sourc.