YASH SARANG D6AD 47 DLCOA / Experiment 5

Aim: To implement logic operation using MUX 16.
Software used: Virtual lab simulator.

Apparatus : Sr. No Component Specification Quantity
1 Multiplexes 1C 74157 1
4 Trainer Kit - 1
5 Connecting wires - -

Theory:

A multiplexer (MUX) is a digital switch which connects data from one of a source of to the output.

A number of select inputs determine which the data source is connected to the output. The block diagram of MUX with a data sources of b data bits wide select lines.

MUX acts like a digitally controlled multiposition switch where the binary code applied to the select inputs controls the input source that will be switched on to the output as shown in the figure. It any given point of time only one input gets selected any and is connected to output, based on the select input signal.

Proceduse: 1) Start the simulator. Delect bit display from input/output menu and place it below the multiplexer. 6) Make connections using the connection tools.
6) Click simulate after giving the desired input in the bit switches. n selection lines whose bit combinations determine which input is selected. Conclusion: 1 Ia

OUTPUT:





