\* Digital Electronics and Logic Design (DELD) - Practical Number - 35 Name: - Raustuch Shrikant Habra.
Class: - Second Year Engineering. Roll Number: -Department: - Computer Engineering Department Multiplexer And Demultiplexer. Jo realize the boolen expression for suitable combinational logic using the mux and demux. A multiplexer:

A multiplexer is also known as data selector, it is
a device that selects between several analog or digital input that
has select lines. The select lines are used to select the line to send the output.
In this experiment we are using Mux 74151/74153.

b) De-Multiplexer: line and routes it to one of serveral digital output lines. Also called as Data Distributor. In This experiment we are using Demux 74154/74138.

Experiment: a) Solve the boolean equation using 4:1 multiplexur.  $F(A, B, C, D) = \leq m(1, 4, 5, 7, 9, 12, 13)$ Using K-map: -01 [ [ ] ] ] Using the truth table logic diagram is: -Yo 4:1 Max Y3

