The IC 74195 is a 4-Bit Bidirectional Universal Shift register. It may be used in Serial-Serial, Shift-Left, Shift-Right, serial-Parallel, Parallel-Serial, and Parallel-Parallel Data register transfer. Its connection diagram is shown in the Fig.3, below.
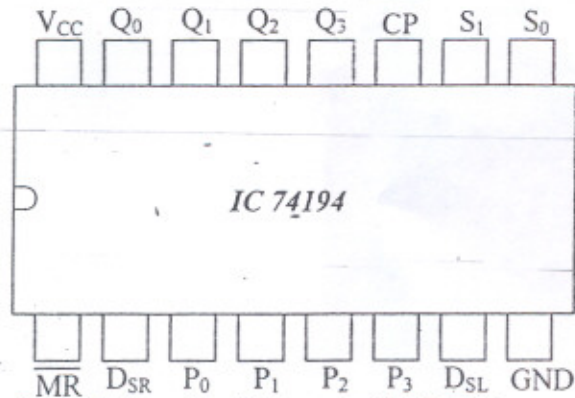

PIN Names:
S_1, S_0 : Mode Control Inputs
$P_0 - P_3$: Parallel Data Inputs
D_{SR} : Seril (Shift Right) Data Input
D_{SL} : Serial (Shift Left) Data Input
CP : Clock Input
MR : Master Reset
$Q_0 - Q_3$: Parallel Outputs

Fig.3. Connection Diagram of IC 74194