

Innovations in Teaching and Learning

Subject: Digital System Design

Class: S.Y. BTech E&TC

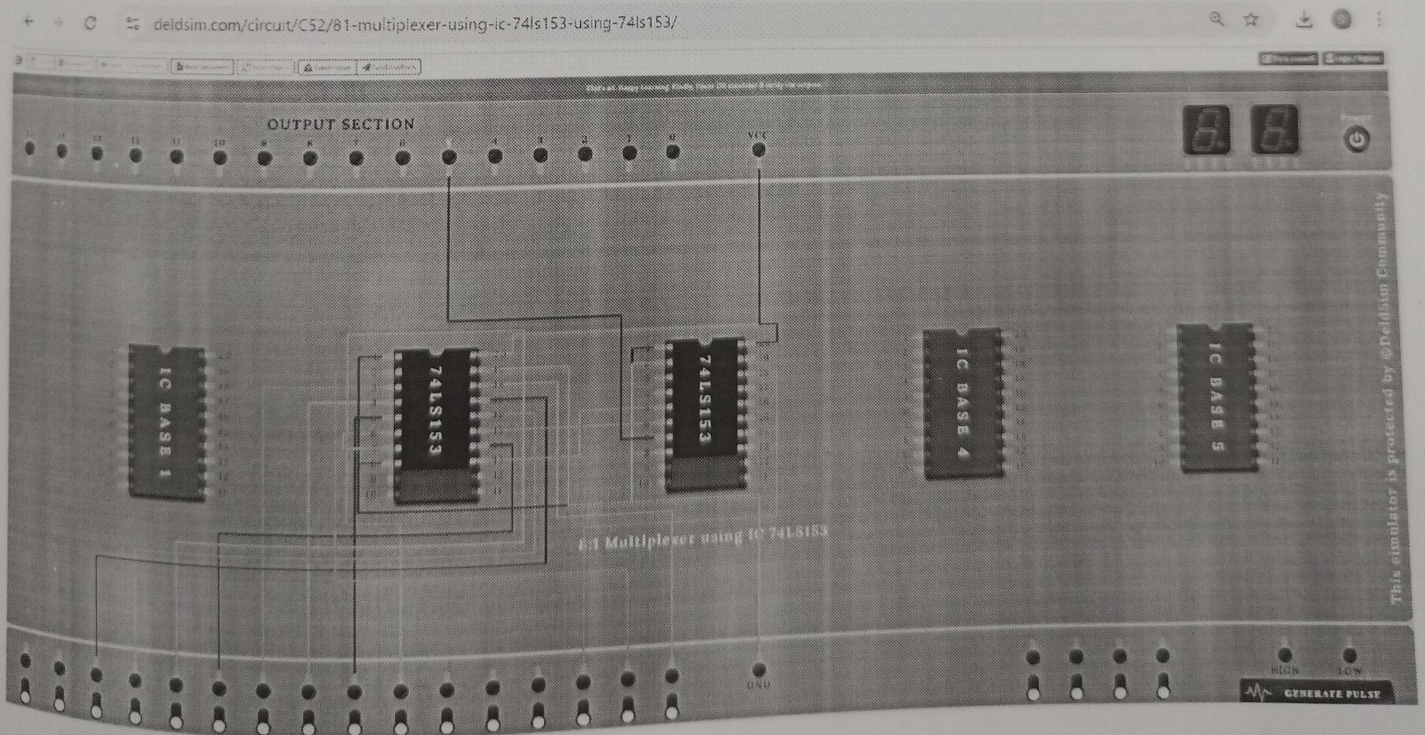
Topic: Design of combinational and sequential circuits

NAME OF THE ACTIVITY: Simulation

Concept: Online simulator DELDSIM is used to explain dataflow in various combinational and sequential circuits in classroom teaching

- I. Objective(Goal): Learning through digital aids to understand circuit functionality.
- II. Appropriateness (Relevance of Selected Method): This method helps students to visualize data flow in visual mode and get in depth knowledge of all the allotted topics.

III. Effective Presentation (Implementation Details):



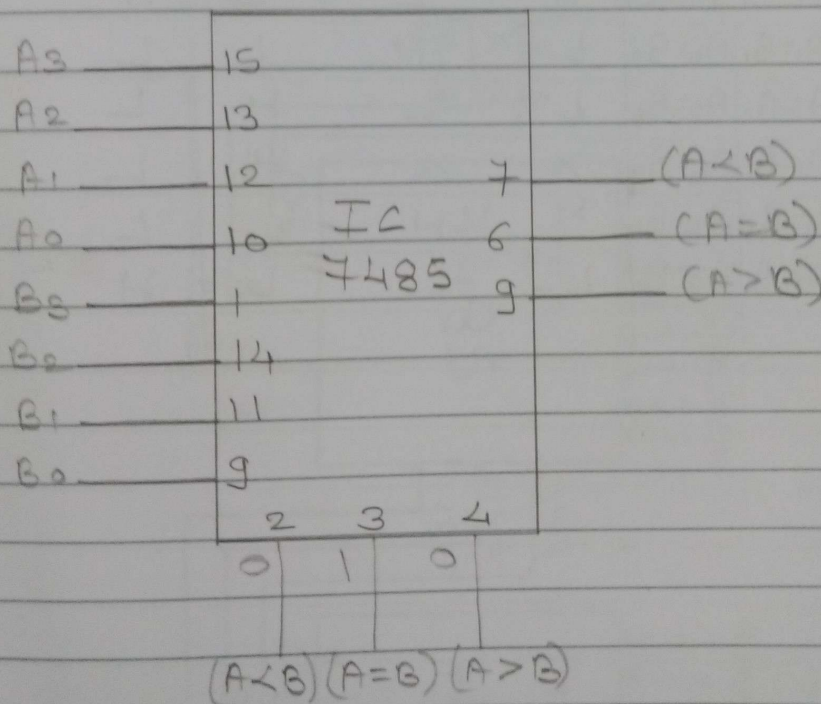
DSD PROJECT

16 BIT COMPARATOR

• IC used:-

- Here, IC 7485 is used to compare 16 bit of A with 16 bit of B.
- IC 7485 is a 4 bit magnitude comparator.
- So, for comparing 16 bits we require 4 7485 IC's with cascading inputs.

• Pin Diagram of IC 7485.



Cascading Inputs

IC 7485. 4 bit Comparator IC

Add IC

Remove IC

Report issue

Send feedback

Remove connection

Show datasheet

Save circuit (Beta)

Save as (Beta)

Reset circuit

Swapnali

Logout

