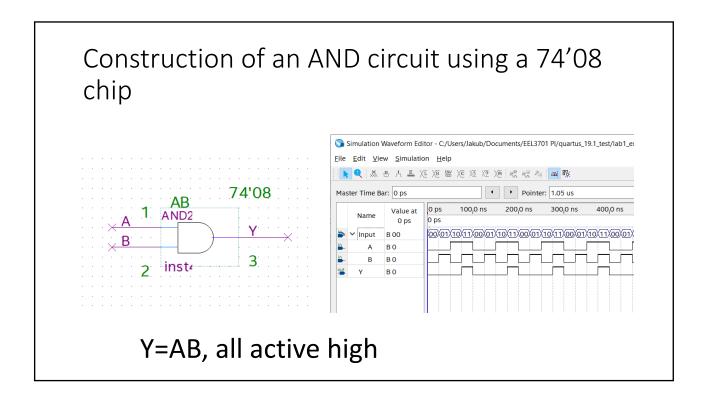
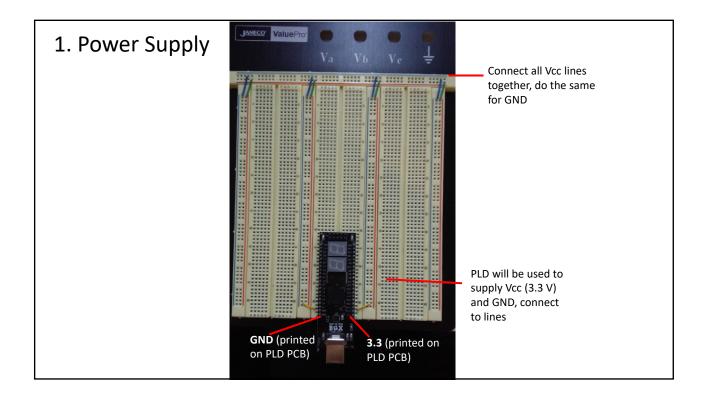
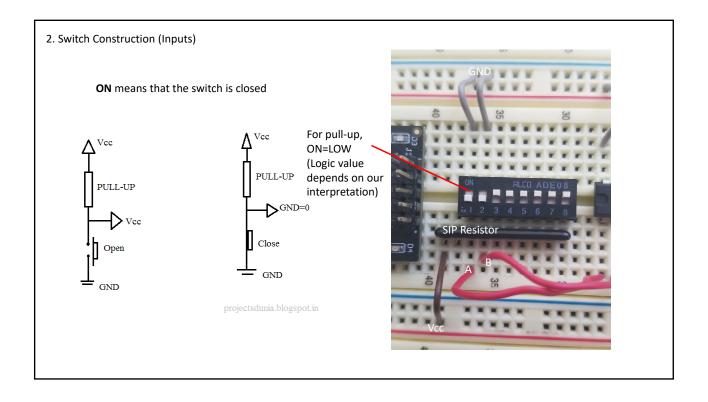
Lab 0 Demo





Lab 0 Demo

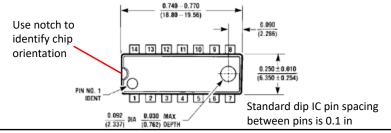
SIP Resistor for Switch Circuit Note the mark, this is the common pin of the resistor package. Connect this to Vcc. All other pins are opposite side of a resistor.

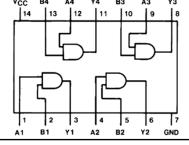


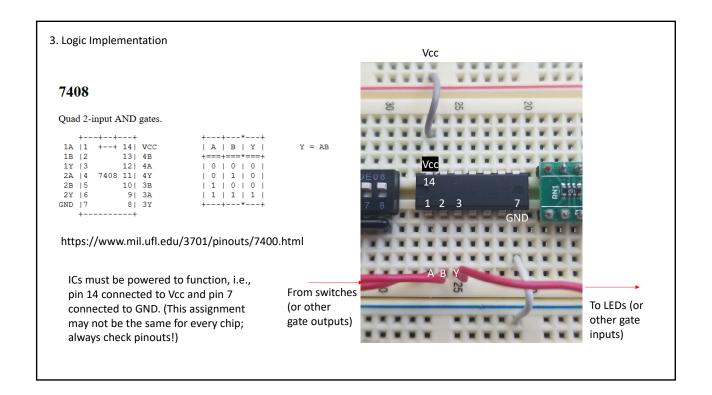
Lab 0 Demo

74HCXX datasheets accessible via course website.

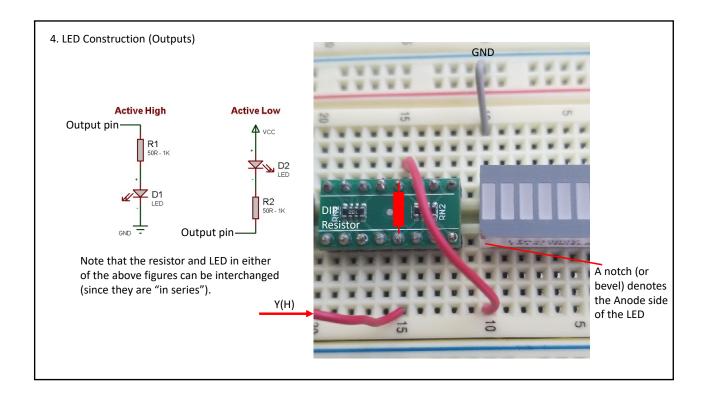
- https://www.futurlec.com/IC74HC00Series.shtml
- https://www.mil.ufl.edu/3701/pinouts/7400.html
- Chips need to be supplied with Vcc and GND to work.
- Each 74HC chip varies in terms of pin assignments for I/O as well as Vcc/GND!

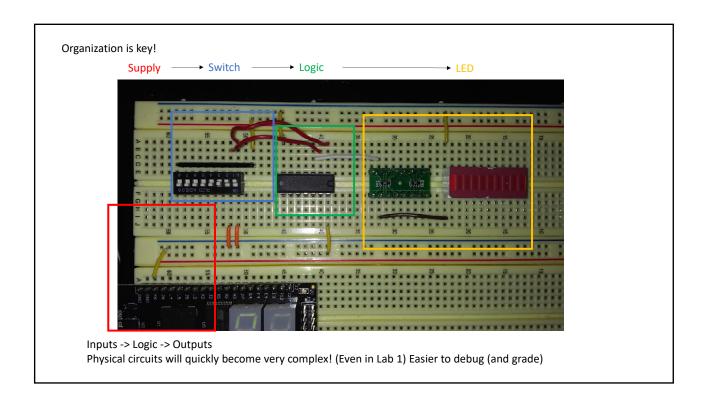




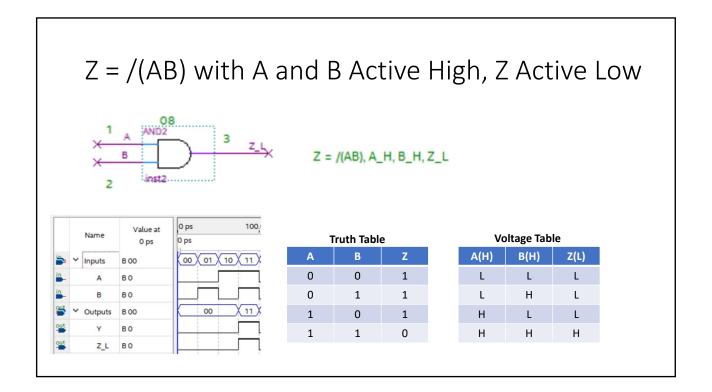


Lab 0 Demo

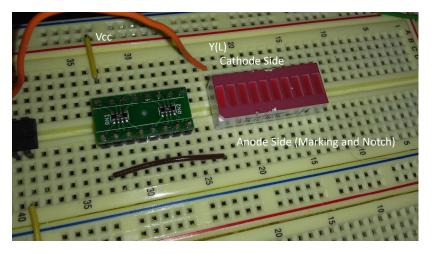




Lab 0 Demo







The LED will turn on only if the output is TRUE. This happens when there is a positive voltage difference across the anode and cathode terminals, which occurs for a low voltage output on active-low LED circuit and high voltage on active-high LED circuit.

Lab 0 Demo

Great Resource Made for the Course:

• https://www.youtube.com/watch?v=52hIG55BUa8