COMP 256

Spring 2022

Lab 02 TINKERCAD Demo Notes

At the start of Lab 02, give a demo of adding a chip to a breadboard in TINKERCAD.

- wire both rails to make life easy.

- Have a slider ready

- Have voltmeter ready

- Insert a not chip - 74HC04

- Always goes across the *channel*.

- allows us to connect to the pins on each side of the chip independently

- Define *pins*

- Mention that requires connection to 1 and 0.

- Which pins differ by chip

- have to look at the diagrams given in the lab to know which ones.

- hook them up to the appropriate rails.

A picture containing text, electronics, circuit

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- Hook up slider to input of one gate.

- Hook up voltmeter to output of that gate.

- Flip the switch from 0 to 1 and back

- observe the change in voltage and recognize it as a NOT.