Binaru

So Far:

Basic Unit of information is the binary digit, or bit.

2^n possible states

Unisigned Integer represents 2^n values

Very Large and Very Small: Floating-Point

IEEE (32-Bits)

**Chapter 3: Digital Logic Structures**

**Transistor: Building Blocks of Computers**

* Logically each transistor acts as a switch and are combined to implement logic functions AND, OR, NOT
* Combined to build higher-level structures (adder, multiplexer, decoder, register)
* Combined to build processor (LC-3: basic assembly language)

Points Covered so far……

Semiconductor properties of silicon

Logic Gates are used to switch behavior of MOS transistors to implement logical functions: AND, OR, NOT

* Use silicon to build transistor
  + P type
  + N type
* Use transistors to build logic gates
  + NAND
  + NOR
  + NOT

**Stuff to Lookup/Research**

\*Implementing truth tables into circuits and shit

\* DeMorgan’s Law

Half Adder

* Working through Truth Table of different circuits and shit