Lab 3: Logic Gates

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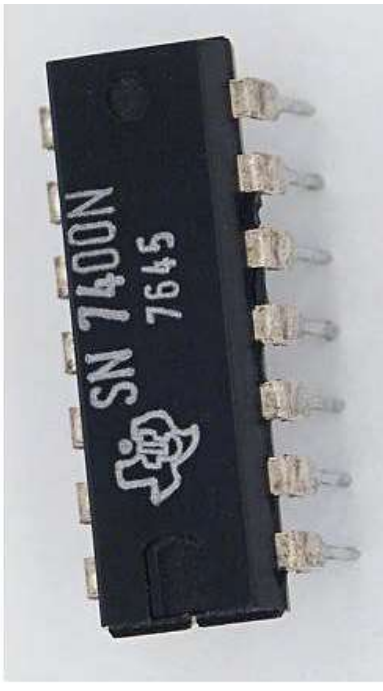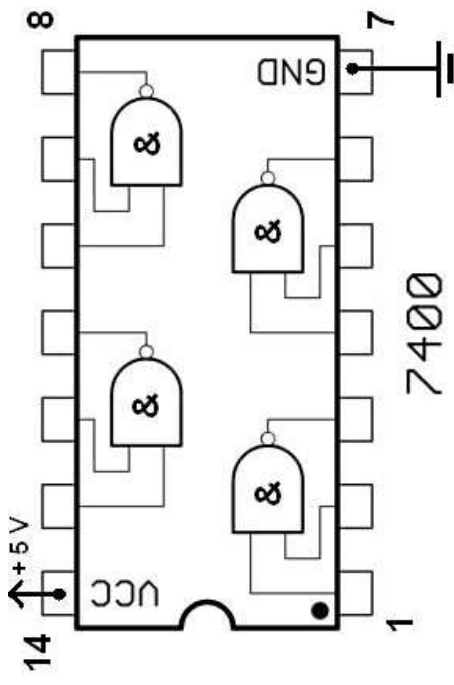# Overview

Logic gates

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Computer Aided Design (CAD)
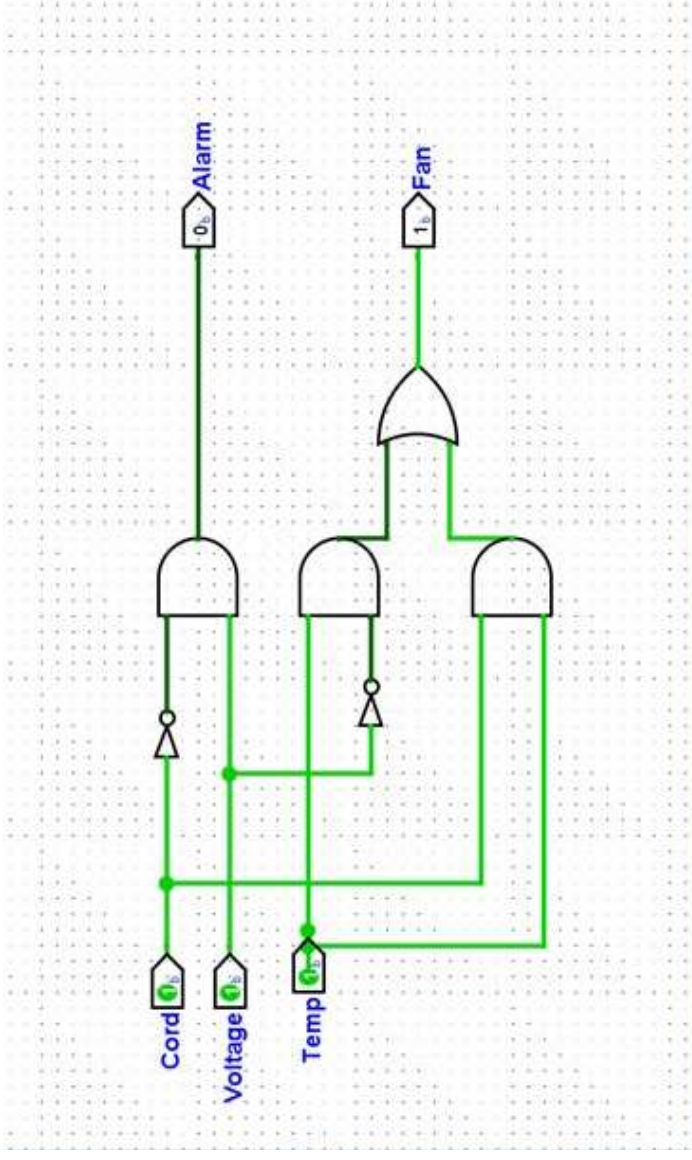
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Solving real-world problems

Computer Aided Design (CAD)

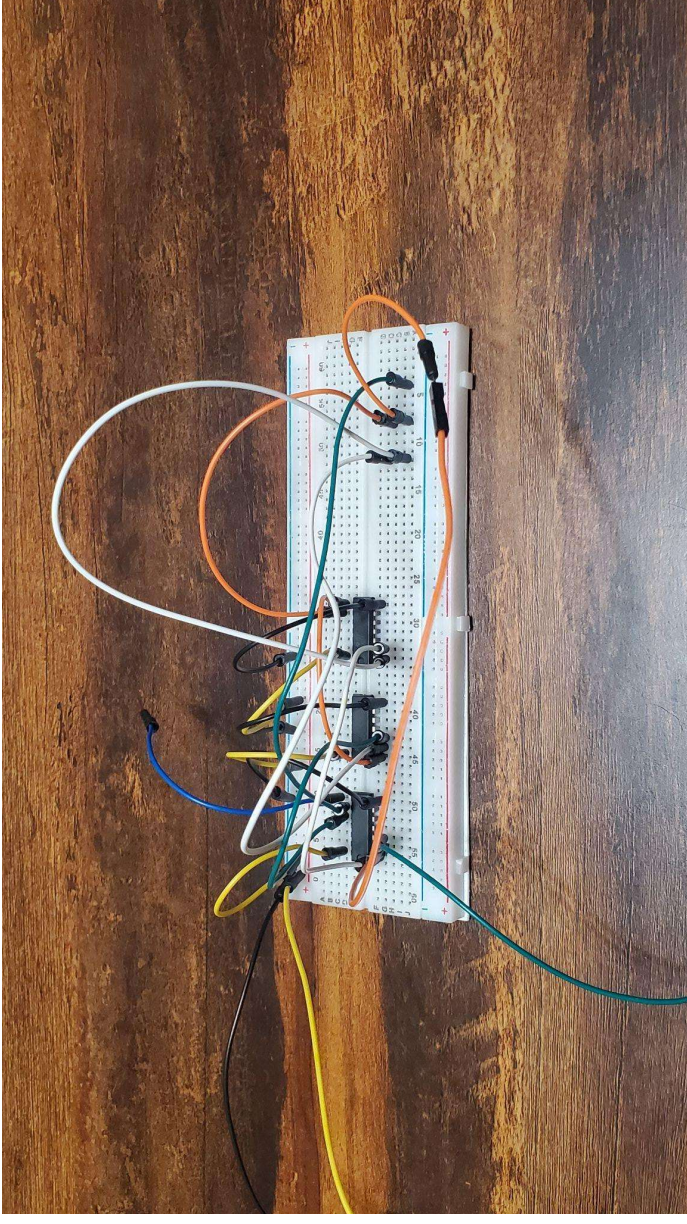**Alarm = C'V**

Fan = TV' + TC

The Circuit

- The fan/alarm circuit
  - Using 3 IC's
  - 3 Inputs
  - 2 Outputs
- With the truth table, we tested the circuit to get the outputs

Legend (Inputs):

- White: Cord   - Orange: Voltage   - Green: Temperature

Conclusion

- Review the basic Logic gates.
- Learn how to use the CAD tool for digital logic simulation.
- Learn how real-world problems may be solved by a pimple digital design problem
- Learn how to implement a digital circuit using 74xx family of logic gates.

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Digital logic design tool and simulator