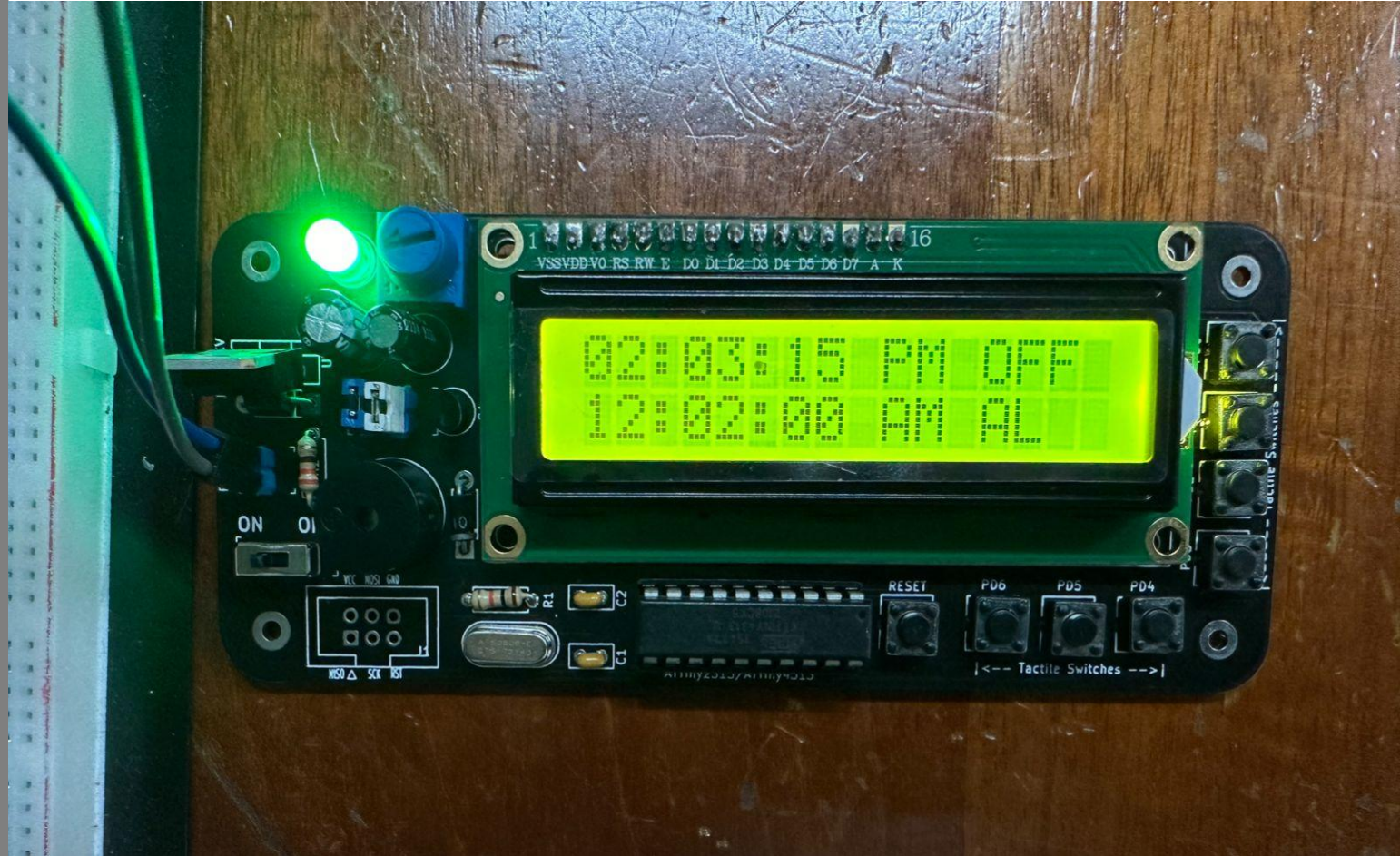# PROBLEM

Have you ever wanted to know what time it is?
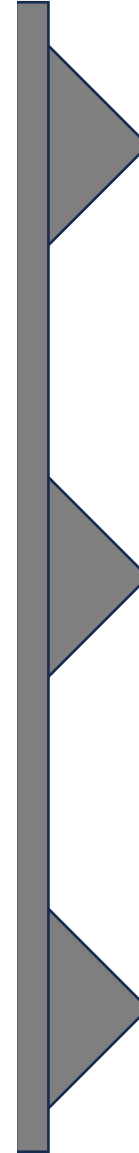
Have you ever wanted to be "Alarmed" to a specific time?

CLOCK

Never be late again.
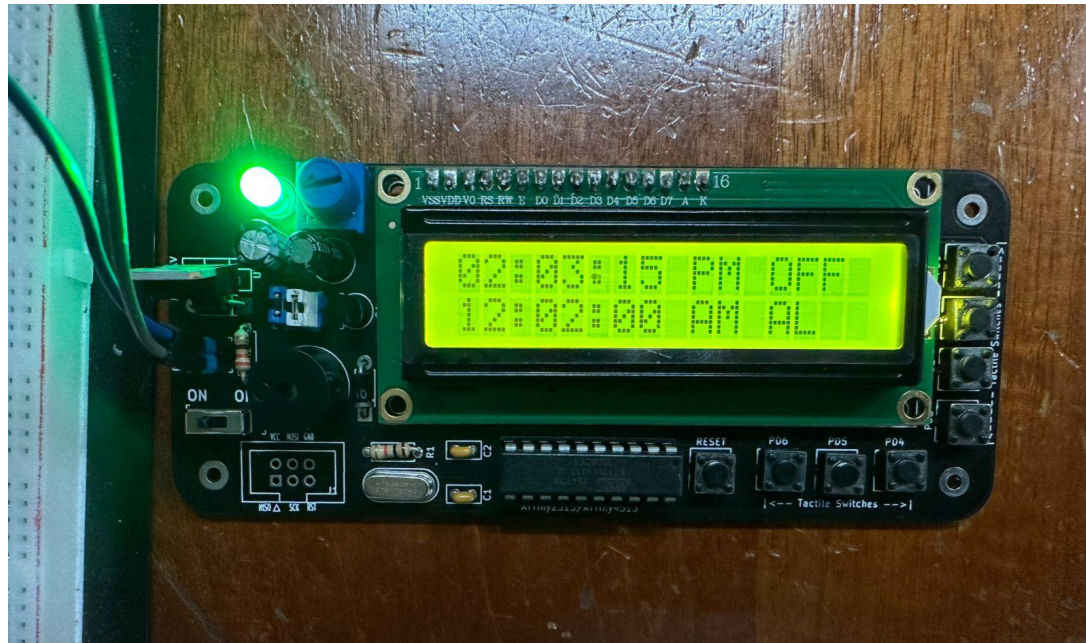
WHAT CAN CLOCK DO?
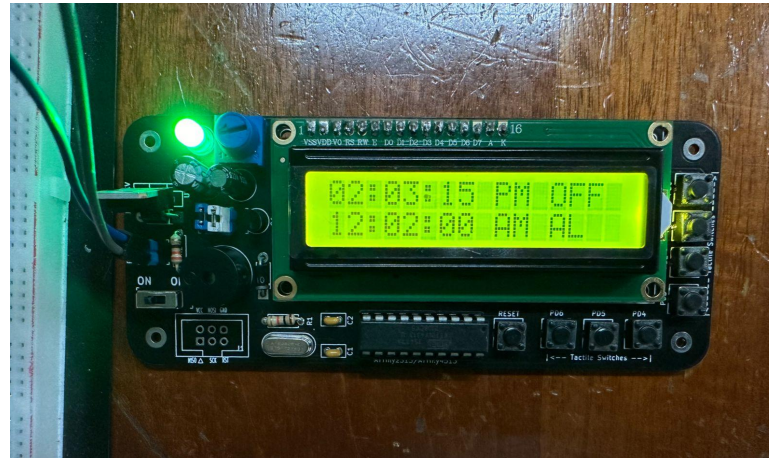
WHAT CAN CLOCK DO?
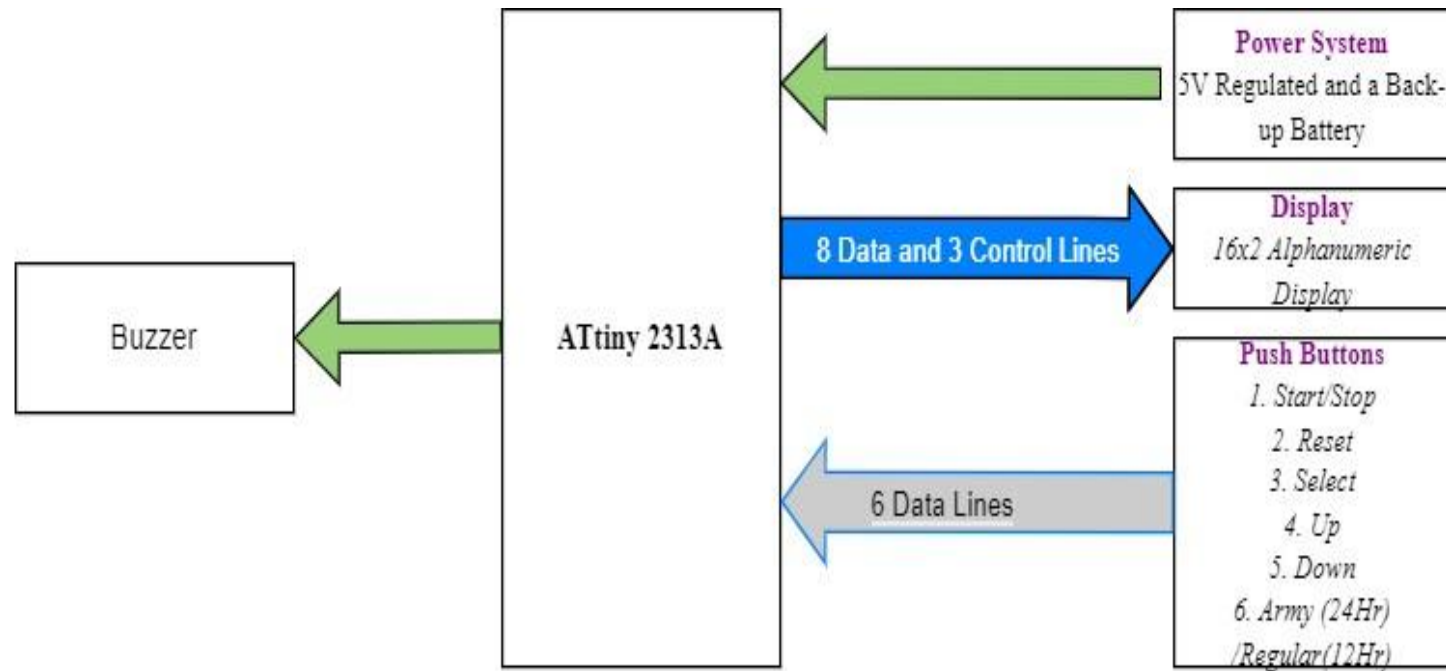
SET & DISPLAY THE CURRENT TIME
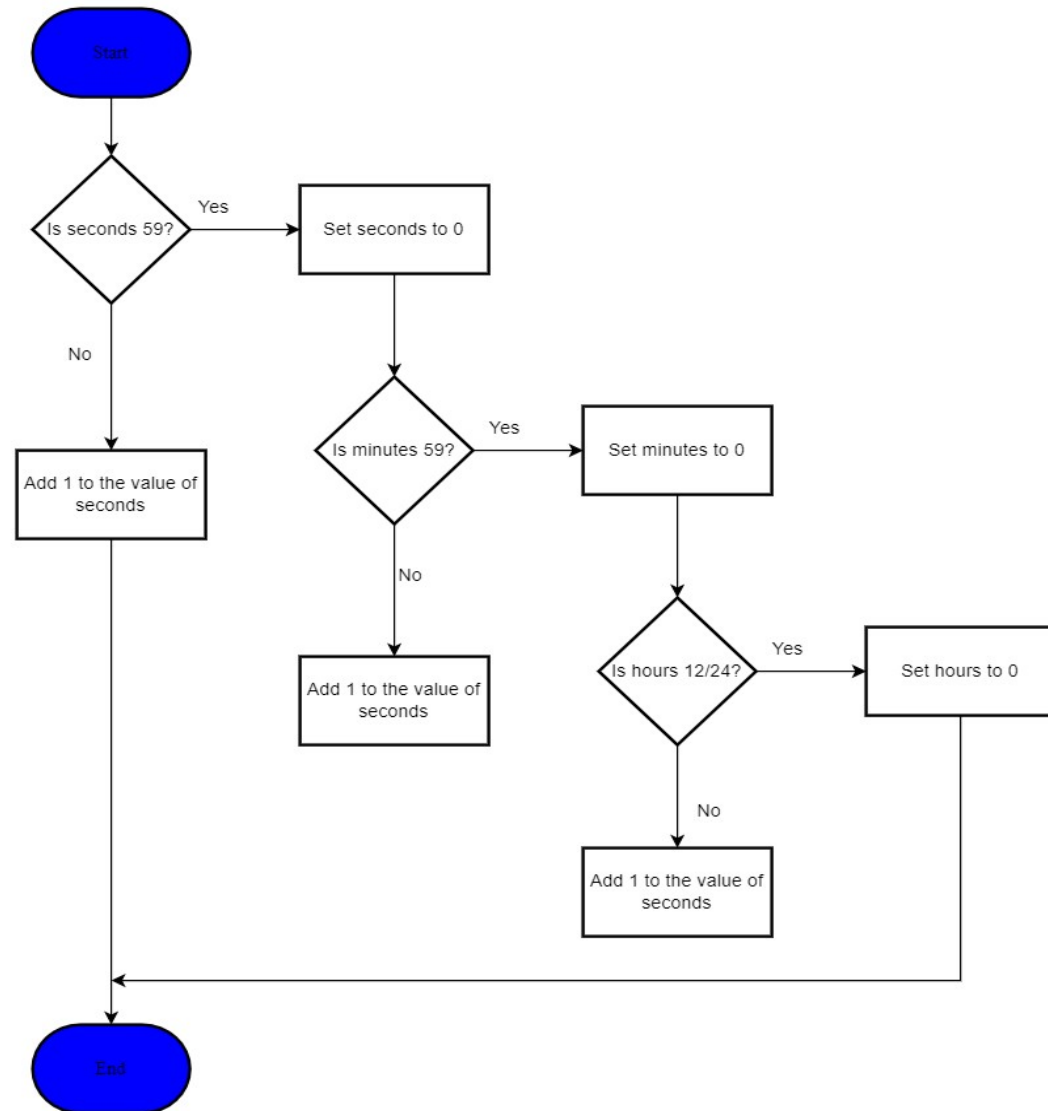
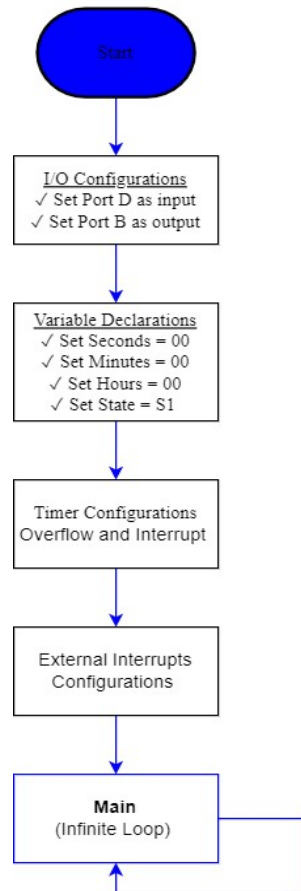# WHAT CAN CLOCK DO?

12HR AND 24HR FORMAT
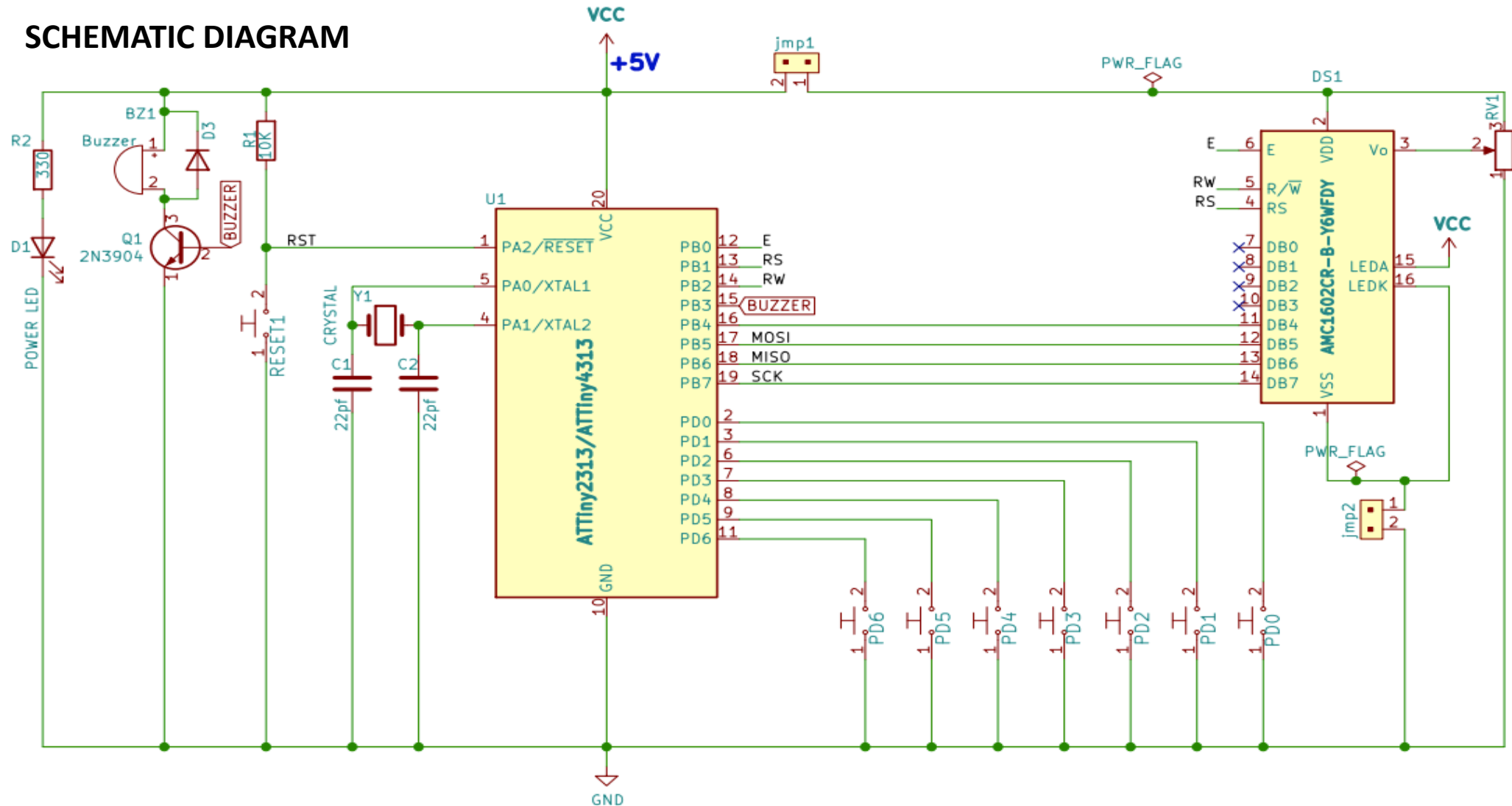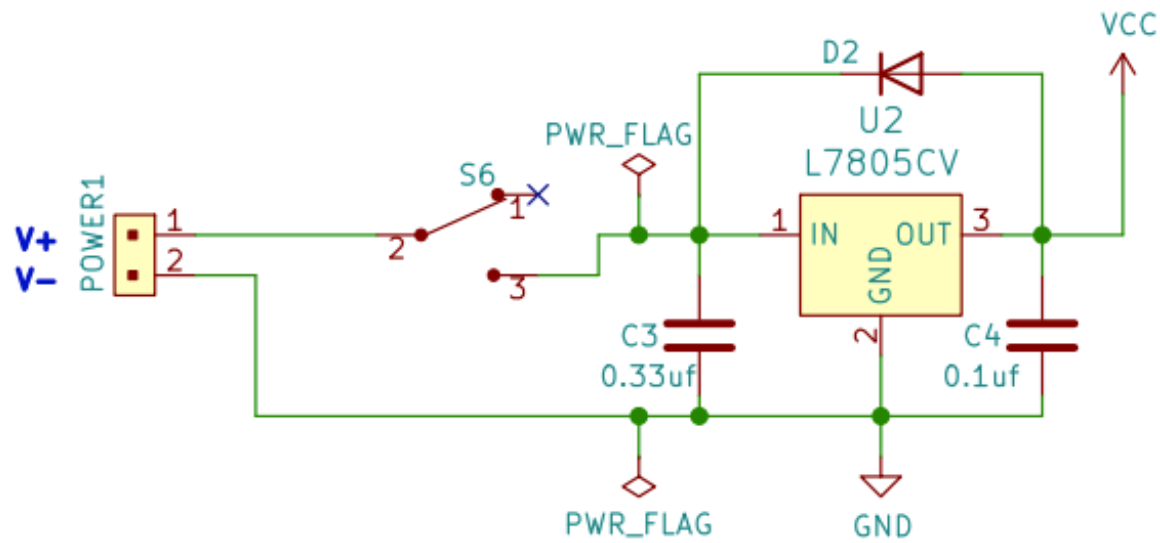
WHAT CAN CLOCK DO?

ALARM

BLOCK DIAGRAM

FLOW CHART

DEVELOPMENT PERIOD

SCHEMATIC DIAGRAM

DEVELOPMENT PERIOD

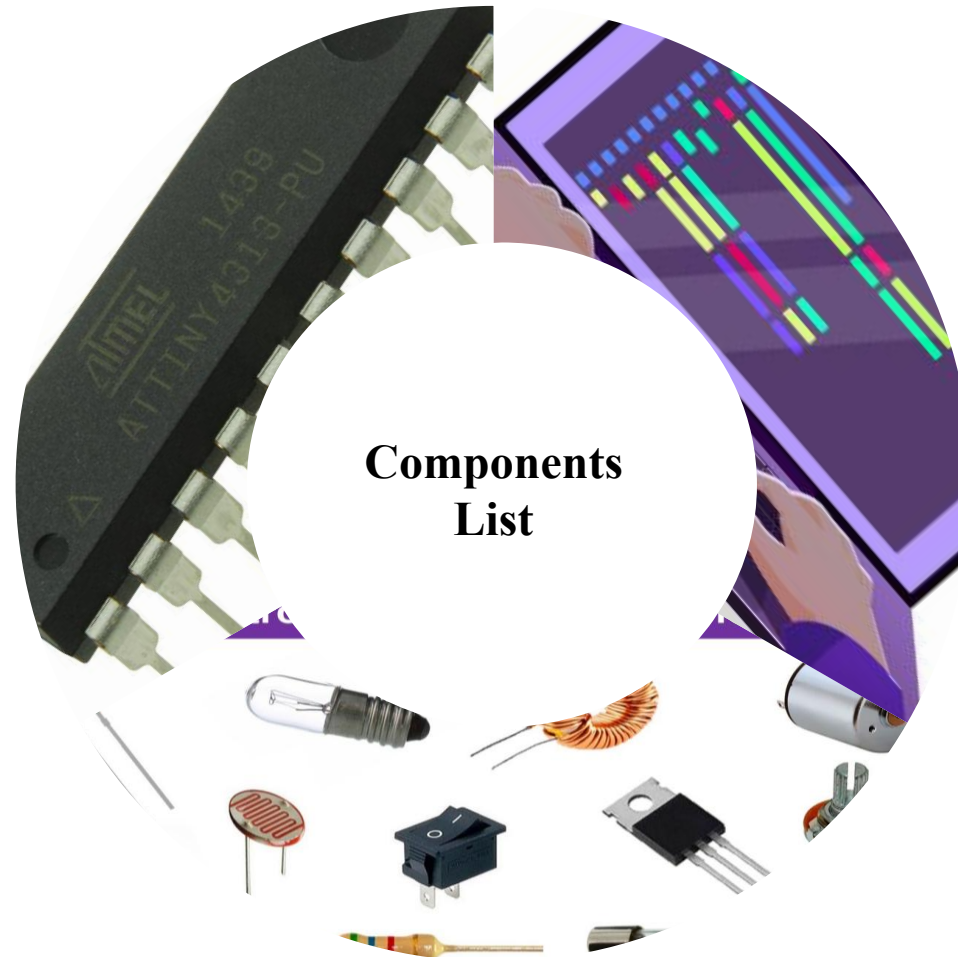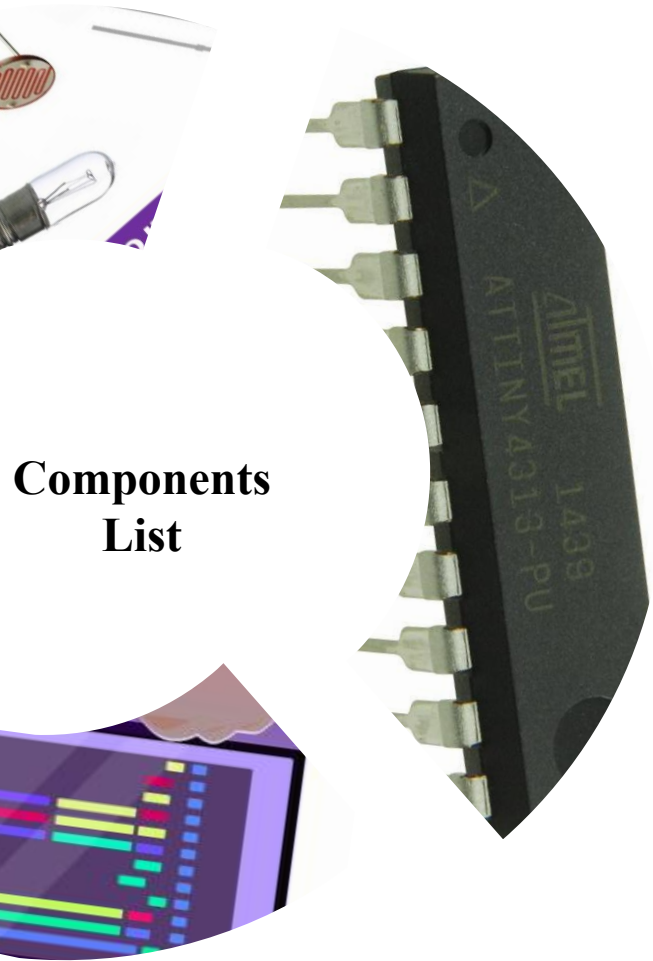**Power Supply**
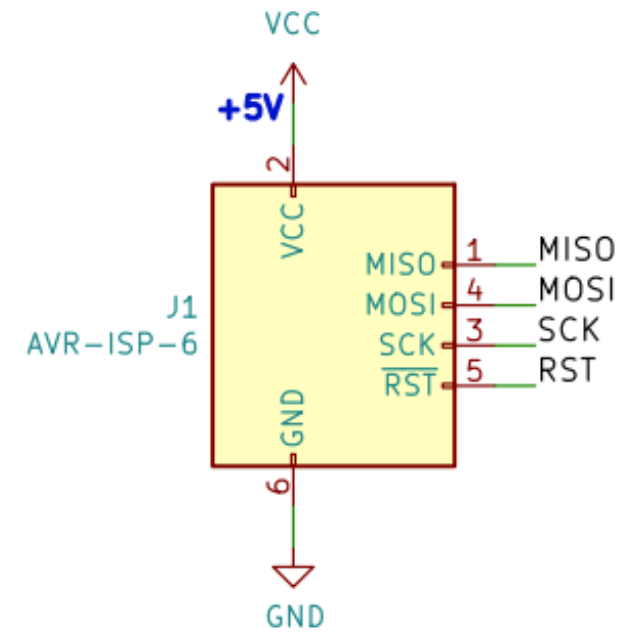
Components
List

ATtiny 4313A

The ATtiny4313A is a microcontroller from the AVR family manufactured by Microchip Technology (formerly Atmel). It's part of the Atmel AVR 8-bit RISC-based microcontroller series, known for its low power consumption, simplicity, and versatility. A microcontroller is basically a computer on a single IC (integrated circuit).

Components List

C-CODE

Instructions are written and coded in the C programming language and then the microcontroller is programmed with said instruction to carry out the functionality. These instructions are written in Microchip Studio and are uploaded to the microchip using the Polou AVR

Components List

Other Components

Components List

Project Kit
- 16x2 LCD
- Crystal
- Voltage Regulator
- 8 Pin Push Buttons
- 2 0.33uf capacitors
- 1 Diode
- Speaker
- Transistor
- Switch
- Microchip Holder
- 1 10K resistor
- 1 330 Resistor
- Knobb Shifter
- Connectro clips
- PCB Bed
- Diode

=$6000 JMD

Other Equipment
- Breadboard- $2500
- Twin and Earth wire- 1000
- Transformer-$2000
- Poloulu AVR Programmer-$1200
- Plug (3 Prong)-$500

TIMES UP!!!