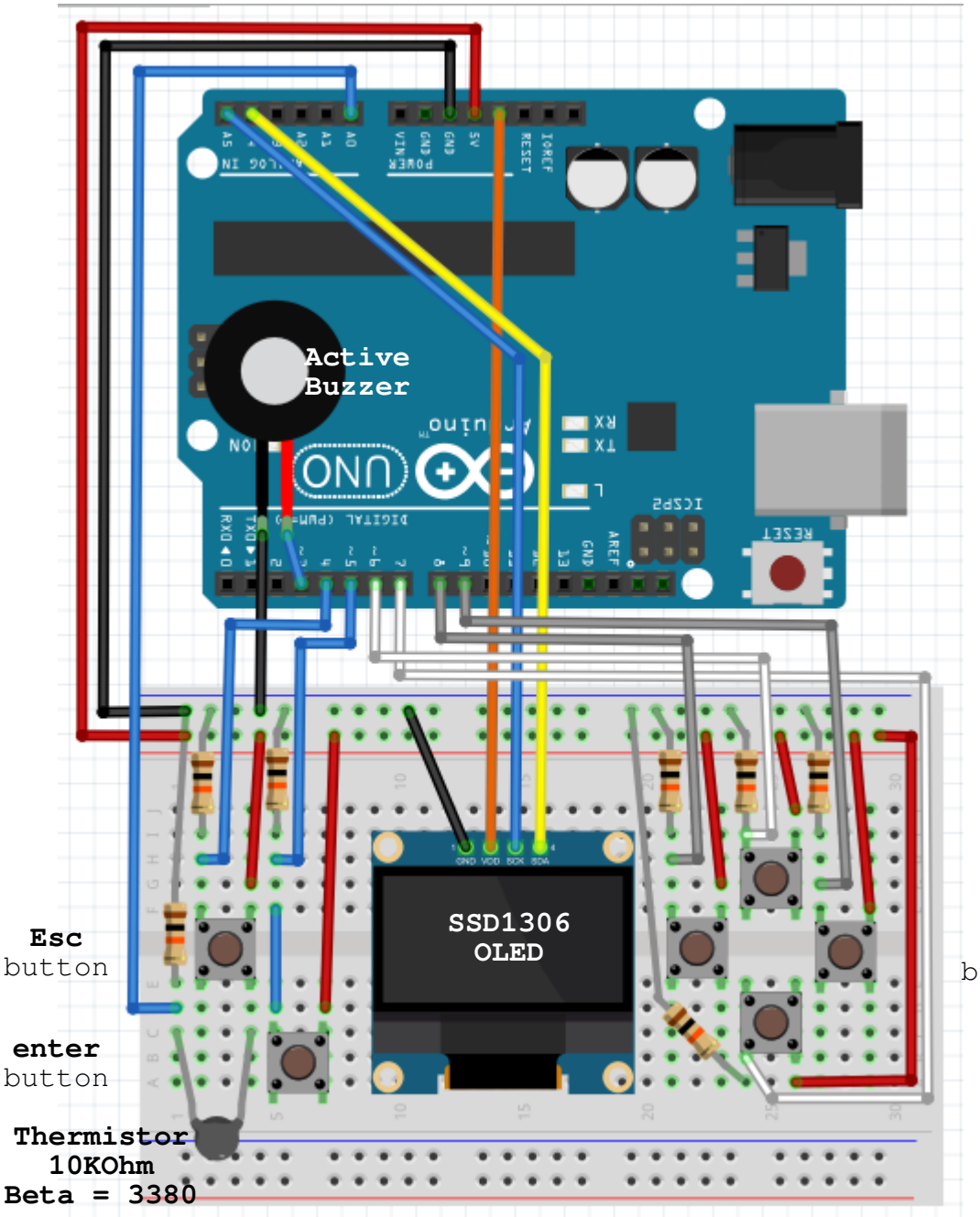
ATMEGA328/ARDUINO - PROJECT - DIGITAL ALARM CLOCK - OLED
https://github.com/teaksoon/p_daco



HARDWARE
1x Computer with Arduino IDE Software
1x USB 2.0 Type A/B Data Cable
1x Arduino Uno Board
1x Solderless Breadboard
Nx Jumper wires

1x Active Buzzer
6x Tactile Switch with 6x 10KOhm Resistor
1x SSD1306 OLED Module i2c 64x128 pixel

- Modular Design Extension -

1x 10Kohm Thermistor(Beta=3380) with 1x 10KOhm Resistor

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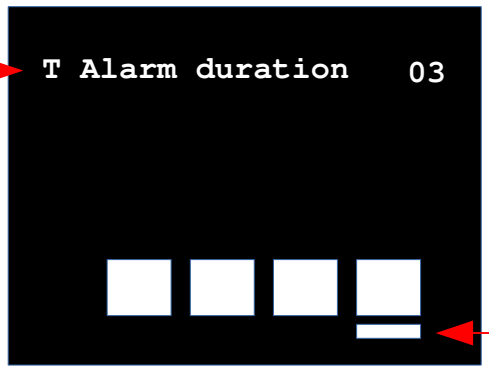
Source code: **p_daco_util_buzzer**
Download from:
https://github.com/teaksoon/p_daco/blob/main/2022_01_06_p_daco_source.zip
Upload PROGRAM, watch the OLED Screen

While in the MENU MODE and the Navigation Bar is at the UTILITY FUNCTION, the OLED screen will display UTILITY Data (Alarm Buzzer Duration time in seconds)

Alarm Buzzer Duration in seconds



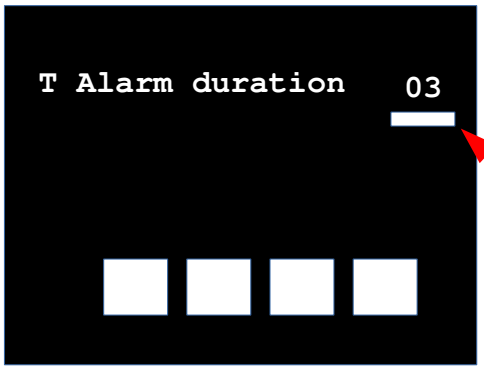
ESC Button – Move Navigation Bar to first MENU OPTION

LEFT/RIGHT Button – Move MENU Navigation Bar. Show different FUNCTION Live Data

ENTER Button – Move into FUNCTION EDIT MODE

Presssing ENTER Button while in MENU MODE, will enter the EDIT MODE (UTILITY FUNCTION)

While in UTILITY FUNCTION EDIT MODE, we can change the Alarm Duration Time in seconds or move Navigate Bar to the "T" to do Buzzer Testing

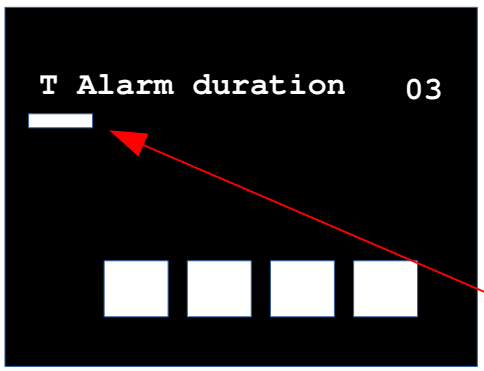


ESC Button – Cancel Edited Data and return to MENU MODE, continue with the previous Data

LEFT/RIGHT Button – Move Navigation Bar

UP/DOWN Button – Change Data at the Navigation Bar position

ENTER Button – Save Edited Data and return to MENU MODE, continue with Saved Data



ESC Button – Cancel Edited Data and return to MENU MODE, continue with the previous data

LEFT/RIGHT Button – Move Navigation Bar

UP/DOWN Button – Change Data at the Navigation Bar position

ENTER Button – When Navigation Bar is at "T" position, Save Edited Data and trigger the Alarm Buzzer for testing (duration based on the new edited Data)

This is a base Navigation and Editing sequence/operations that we will be using for the other functions, CLOCK, ALARM TIME and THERMOMETER. We will make all of them use the "similar" operation, so it is easier for both PROGRAMMING and also the Users of this device