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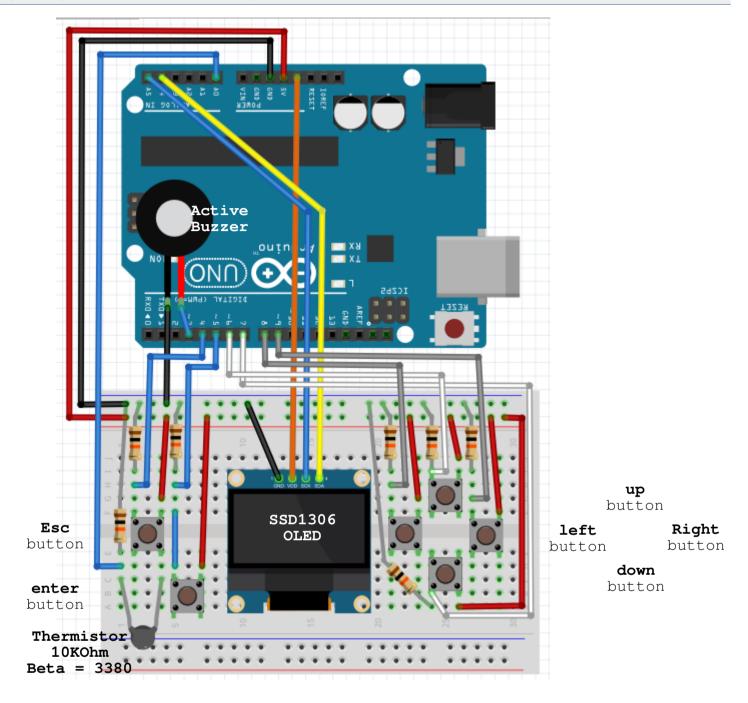https://github.com/teaksoon/p_daco

HARDWARE
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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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Menu Bitmap
Icon

Navigation
Bar

There are many ways to make a menu for a device. In this particular device,
we will just use a 8pixel(vertical) x 10pixel(wide) bitmap for each Menu
Option and a Navigation Bar to tell us which Menu is active

We will have 4 Menu Options in our Device
1. Clock – to show/set Running Clock (Time and Date)
2. Alarm – to show/set Alarm Time
3. Therm – to show Temperature
4. Util – to set/test Alarm buzzer duration

We will make it in a modular fashion, where we add on new functions to this
device easily in the future.

In this PROGRAM we will only navigate between the menu options, no editing
or running clock yet. Try press different buttons to see the effects