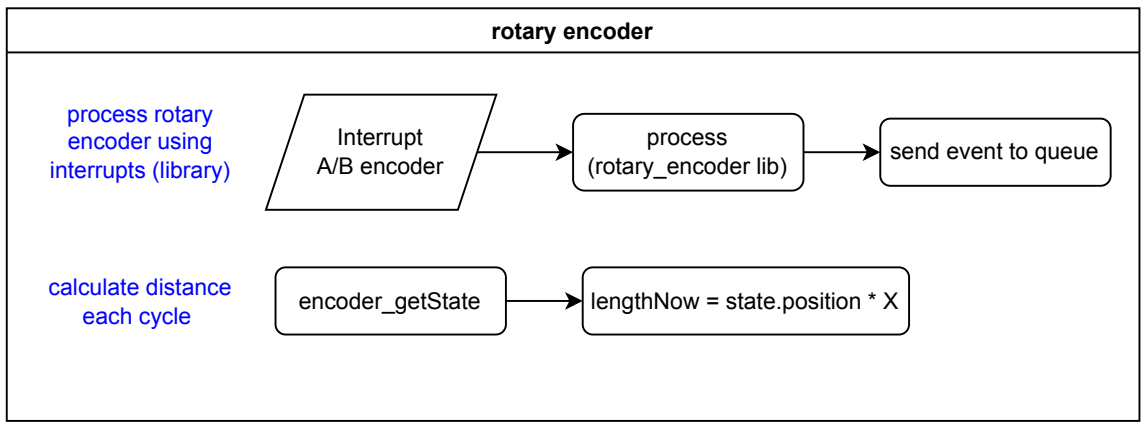
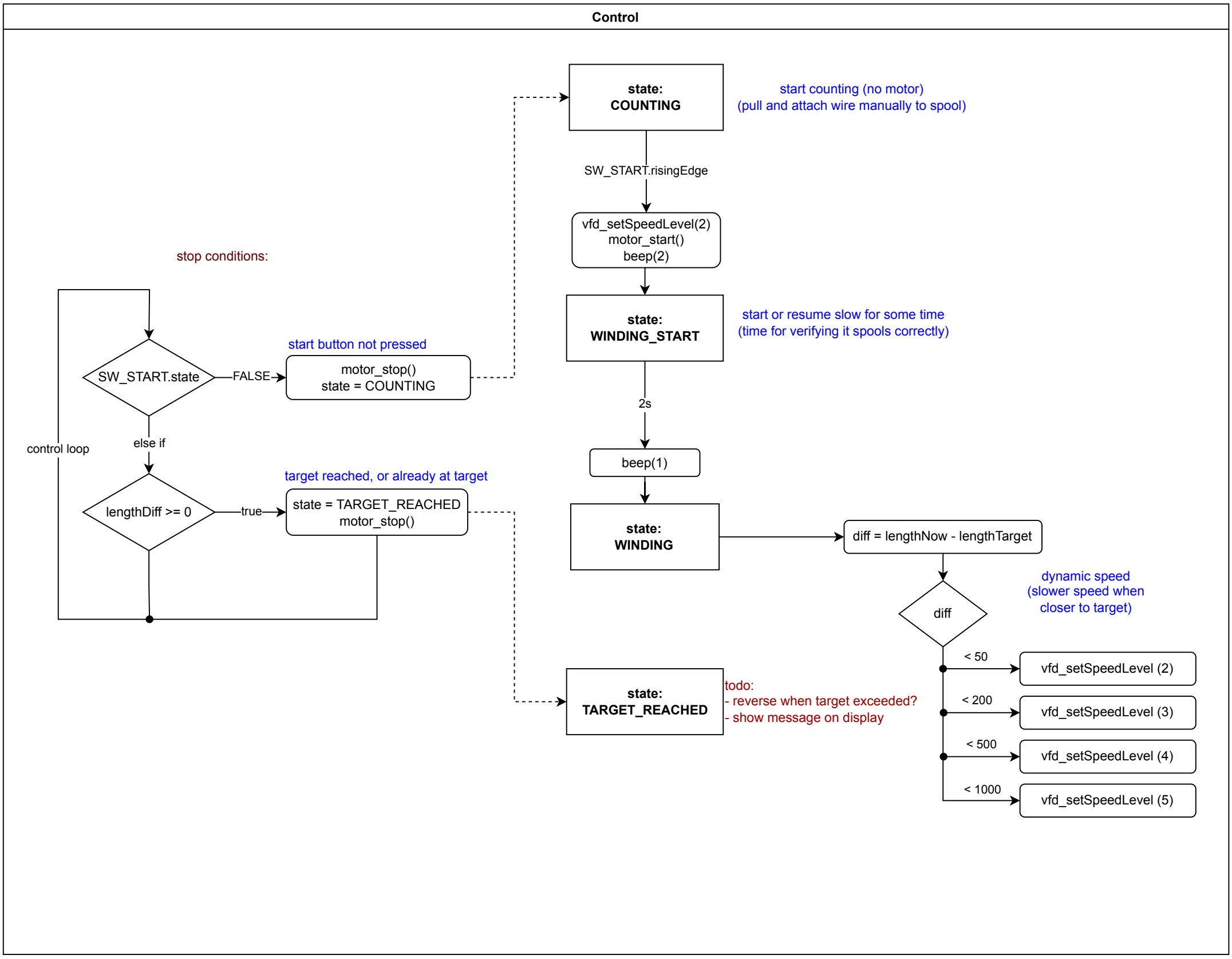


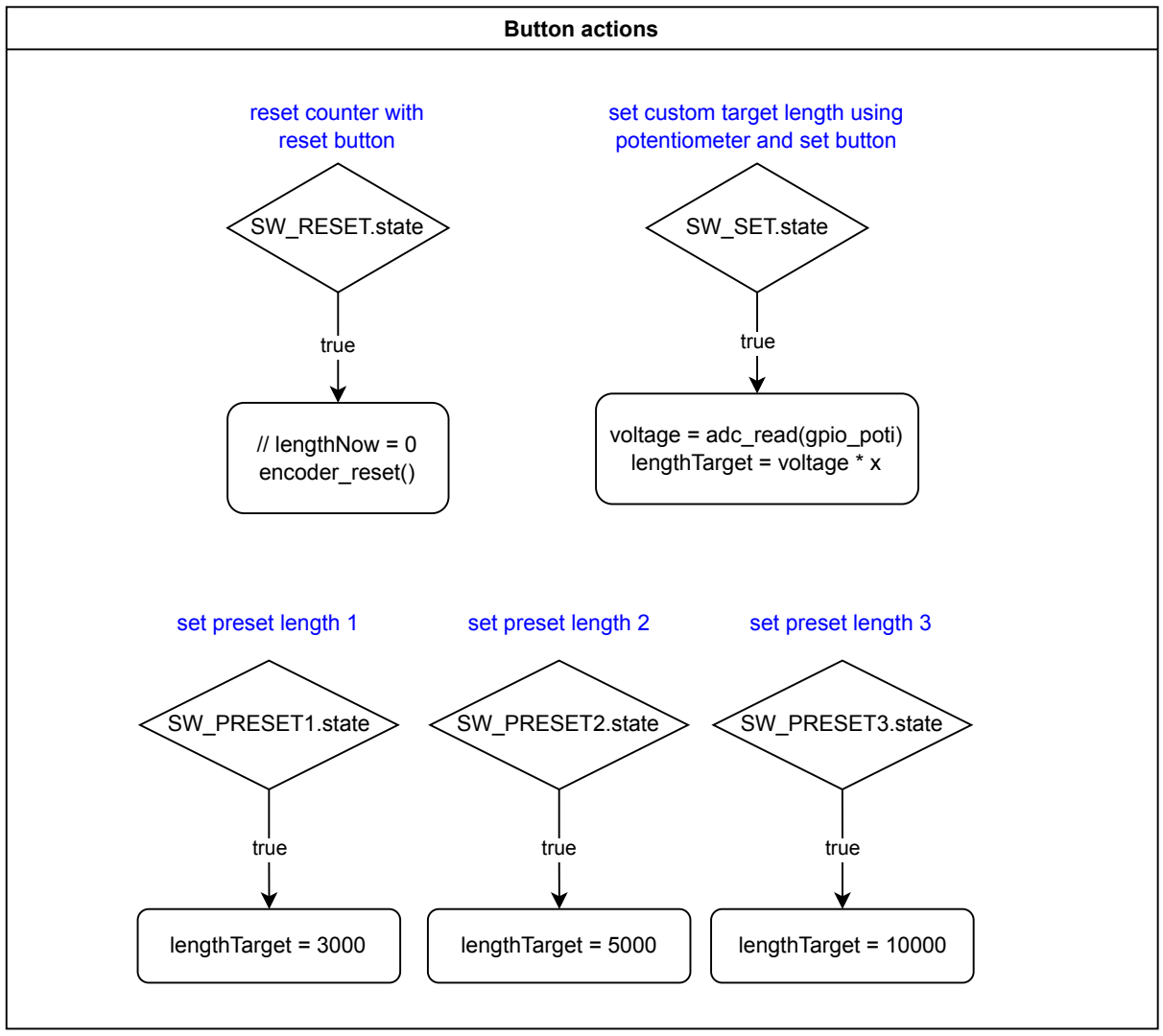
Input
- Button Start - Button Reset - Button Set - Potentiometer - Preset 1-3

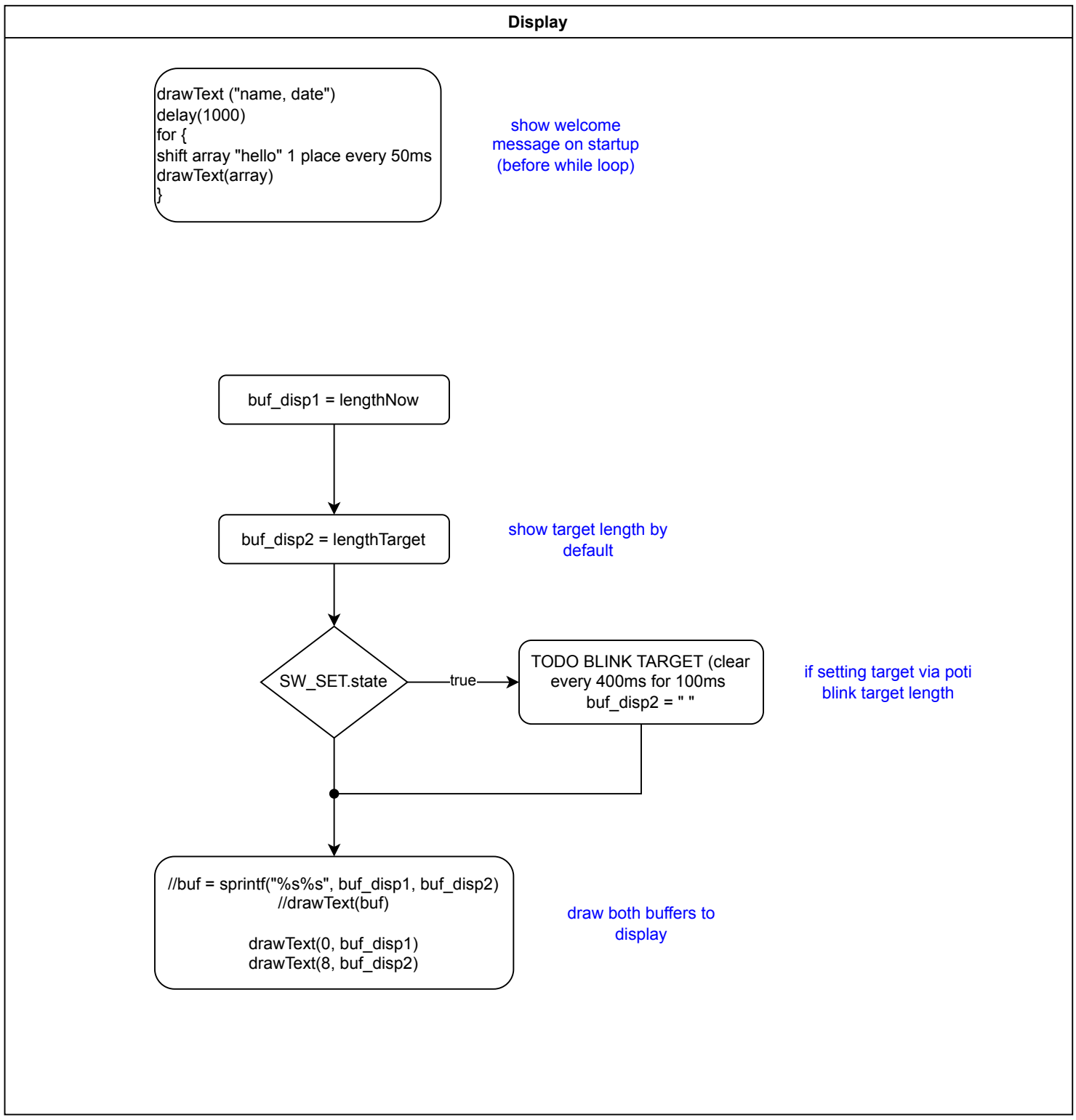
Output

- 2x 8 digit 7-segment display
- buzzer
 	
- VFD
  - D0 - D2
  - FWD
  - REV
 	
- Control lamp

Features/Ideas - List:
- slow down when close to target
- stop when no movement recognized
- manual reverse control? e.g. unwind again




Button actions
reset counter with reset button
SW_RESET.state
true
// lengthNow = 0
encoder_reset()
set custom target length using potentiometer and set button
SW_SET.state
true
voltage = adc_read(gpio_poti)
lengthTarget = voltage * x
set preset length 1
SW_PRESET1.state
true
lengthTarget = 3000
set preset length 2
SW_PRESET2.state
true
lengthTarget = 5000
set preset length 3
SW_PRESET3.state
true
lengthTarget = 10000


Display
drawText ("name, date")
delay(1000)
for {
shift array "hello" 1 place every 50ms
drawText(array)
}
show welcome message on startup (before while loop)
buf_disp1 = lengthNow
buf_disp2 = lengthTarget
show target length by default
SW_SET.state
true
TODO BLINK TARGET (clear every 400ms for 100ms
buf_disp2 = " "
if setting target via poti blink target length
//buf = sprintf("%s%s", buf_disp1, buf_disp2)
//drawText(buf)
drawText(0, buf_disp1)
drawText(8, buf_disp2)
draw both buffers to display