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#GUI Code

import string
import io
import math as m
import time
import board
import busio
import adafruit_vl53l0x
import serial

from guizero import App, Text

i2c = busio.I2C(board.SCL, board.SDA)
vl53 = adafruit_vl53l0x.VL53L0X(i2c)
ser = serial.Serial('/dev/ttyS0', 38400, timeout=1)

def updateSensor():
    text1.value = "ToF sensor: " + str(vl53.range)
    text2.value = "Battery Voltage: " + str(ser.read(1))


init = 0

app = App("Display Sensor", layout="auto")
text1 = Text(app, text="ToF sensor: " + str(vl53.range))
text1 = Text(app, text="Battery Voltage: " + str(ser.read(1)))


text.repeat(500, updateSensor)

app.display()
```

```
#Motor Testing

import serial
ser = serial.Serial('/dev/ttyS0', 38400, timeout=1)  # open serial port
print(ser.name)         # check which port was really used

#ser.write(b'F')
#ser.write([13])     # write a string
#print(ser.read(2).hex())

def forward(speed):

    speed = int((128/100)*speed)
    ser.write(b'L')
    ser.write([speed])
    ser.write(b'R')
    ser.write([speed])

def backward(speed):

    speed = -int((128/100)*speed)
    ser.write(b'L')
    ser.write([speed])
    ser.write(b'R')
    ser.write([speed])
def stop():

    ser.write(b'L')
    ser.write([0])
    ser.write(b'R')
    ser.write([0])

ser.close()             # close port
```