import serial as S1

import serial as S2

from time import sleep

import subprocess

from time import sleep

from Adafruit\_CharLCD import Adafruit\_CharLCD

# instantiate lcd and specify pins

lcd = Adafruit\_CharLCD(rs=26, en=19,

d4=13, d5=6, d6=5, d7=11,

cols=16, lines=2)

VCC = 4.98

R\_DIV = 47500.0

ser = S1.Serial('/dev/ttyACM0', 9600)

ser1 =S2.Serial('/dev/ttyACM0',9600)

lcd.clear()

# display text on LCD display \n = new line

lcd.message('Speech synthesis')

sleep(2)

lcd.clear()

lcd.message('using Raspberry\n Pi 3')

sleep(2)

lcd.clear()

while 1:

line = ser.readline()

line1=ser1.readline()

y=int(line)

x=int(line1)

#print(y)

#print(x)

flexV = y \* VCC / 1023.0

flexR = R\_DIV \* (VCC / flexV - 1.0)

flexV1 = x\* VCC / 1023.0

flexR1 = R\_DIV \* (VCC / flexV1- 1.0)

#print(flexR)

#print(flexR1)

if(flexR>600 and flexR<800):

print('sensor1:',flexR)

lcd.message('Please come here')

text='"Please come here"'

print(text)

subprocess.call('echo '+text+'|festival --tts', shell=True)

lcd.clear()

if(flexR>800 and flexR<1000):

print('sensor1:',flexR)

lcd.message('I need my Snacks ')

text='"I need my Snacks"'

print(text)

subprocess.call('echo '+text+'|festival --tts', shell=True)

lcd.clear()

if(flexR1>600 and flexR1<800):

print('sensor2:',flexR1)

lcd.message('Please bring me\n my lunch')

text='"Please bring me my lunch"'

print(text)

subprocess.call('echo '+text+'|festival --tts', shell=True)

lcd.clear()

if(flexR1>850 and flexR1<1000):

print('sensor2:',flexR1)

lcd.message('I need coffee')

text='"I need coffee"'

print(text)

subprocess.call('echo '+text+'|festival --tts', shell=True)

lcd.clear()