<button sensor>

import RPi.GPIO as gpio

import time

import socket

gpio.setmode(gpio.BCM)

gpio.setup(12,gpio.IN) #SONSOR

cli\_sock = socket.socket (socket.AF\_INET, socket.SOCK\_DGRAM)

flag = True

while True:

if gpio.input(12) == 0 :

#print ("ON")

print("ON")

msg = "2"

cli\_sock.sendto (msg.encode(), ('210.125.30.188', 8080))

time.sleep(1)

gpio.cleanup()

<human sensor>

import RPi.GPIO as gpio

import time

import socket

from datetime import datetime

gpio.setmode(gpio.BCM)

gpio.setup(19,gpio.IN) #SONSOR

count = 0;

cli\_sock = socket.socket (socket.AF\_INET, socket.SOCK\_DGRAM)

while True:

startTime = datetime.now()

if gpio.input(19) == 0 :# find human

while True:

endTime = datetime.now()

if endTime.second - startTime.second == 20 :

print("Time OUT")

count = 0

break

if count == 3 :

print("count = 3")

#socket

msg = "5"

cli\_sock.sendto (msg.encode (), ('210.125.30.188', 8080))

count = 0

break

if gpio.input(19) == 0 :

count += 1

print(count)

time.sleep(0.05)

gpio.cleanup()

#client UDP

import socket

import RPi.GPIO as gpio

import time

gpio.setmode(gpio.BCM)

gpio.setup(19,gpio.IN) #gas

gpio.setup(18,gpio.IN) #fire

cli\_sock = socket.socket(socket.AF\_INET, socket.SOCK\_DGRAM)

try:

    while True:

        if gpio.input(19) == 1 : # GAS ON

            msg="3";

            #cli\_sock.sendto(msg.encode(),('210.125.30.188',8080))

            print ("GAS")

            time.sleep(1)

        if gpio.input(19) == 0 :

        ##    print("OFF")

            time.sleep(0.5)

        if gpio.input(18) == 0 : # FIRE ON

            print("LIGHT ON")

            msg="4";

            cli\_sock.sendto(msg.encode(),('210.125.30.188',8080))

            time.sleep(5)

except KeyboardInterrupt :

    gpio.cleanup()

///GAS,FIRE

#Sever Raspberry

#server UDP

import socket

import RPi.GPIO as gpio

import time

from datetime import datetime

######################################################

gpio.setmode(gpio.BCM)

gpio.setup(18, gpio.OUT)

gpio.setup(17,gpio.OUT)

gpio.setup(27,gpio.OUT)

gpio.setup(22,gpio.OUT)

server\_sock = socket.socket( socket.AF\_INET, socket.SOCK\_DGRAM )

server\_sock.bind( ('210.125.30.188', 8080) )  # 서버 IP, 포트번호 바인딩

flag = True

while flag :

    data, addr = server\_sock.recvfrom(200)

    f = open("Log.txt", 'a')

    now = datetime.now()

    #print (now)

    #print ("Server is received data : ", data.decode() )

    print ("IP : " + addr[0])

    if (int)(data.decode()) == 2 :

        print(str(now) + "\t BUTTON")

        f.write(str(now) + "\t" + data.decode() + "\t BUTTON\n")

    if (int)(data.decode()) == 3 :

        print(str(now) + "\t GAS")

        f.write(str(now) + "\t" + data.decode() + "\t GAS\n")

    if (int)(data.decode()) == 4 :

        print(str(now) + "\t FIRE")

        f.write(str(now) + "\t" + data.decode() + "\t FIRE\n")

    if (int)(data.decode()) == 5 :

        print(str(now) + "\t LAY")

        f.write(str(now) + "\t" + data.decode() + "\t LAY\n")

    a = (int)(data.decode());

    for i in range(0,3):

        for j in range (0, a):

            gpio.output(18, True)

            gpio.output(17,True)

            gpio.output(27,True)

            gpio.output(22,True)

            time.sleep(0.5);

            gpio.output(18, False)

            gpio.output(17,False)

            gpio.output(27,False)

            gpio.output(22,False)

            time.sleep(0.5);

        time.sleep(1);

    f.close()

gpio.cleanup()