import RPi.GPIO as GPIO

import paho.mqtt.client as mqtt

# raspberry pin connection

# S - GPIO17

# middle - 3v or 5v

# negative(-) - GND

LedPin = 11 # pin11

def setup():

GPIO.setmode(GPIO.BOARD) # Numbers GPIOs by physical location

GPIO.setup(LedPin, GPIO.OUT) # Set LedPin's mode is output

GPIO.output(LedPin, GPIO.HIGH) # Set LedPin high(+3.3V) to off led

# This is the Subscriber

def on\_connect(client, userdata, flags, rc):

print("Connected with result code "+str(rc))

client.subscribe("Turn/#")

def on\_message(client, userdata, msg):

if msg.payload == 'Turn off the motor of tank 2': # this will make the laser off for the tank 2

print("Tank 2 Motor is off")

client.publish("Moisture/Off","Moisture sensor is off for tank 2")

GPIO.output(LedPin, GPIO.LOW)

elif msg.payload == 'Turn on the motor of tank 2': # this will make the laser on for the tank 2

print("Tank 2 Motor is on")

client.publish("Moisture/On","Moisture sensor is on for tank 2")

GPIO.output(LedPin, GPIO.HIGH)

client = mqtt.Client()

client.connect("test.mosquitto.org", 1883, 60)

client.on\_connect = on\_connect

client.on\_message = on\_message

setup()

client.loop\_forever()