import RPi.GPIO as GPIO

import time

import paho.mqtt.client as mqtt

client = mqtt.Client() # instance of client

client.connect("test.mosquitto.org", 1883, 60); # client connect to the broker

channel = 21 # this is pin from the raspberry pi

GPIO.setmode(GPIO.BCM)

GPIO.setup(channel, GPIO.IN)

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

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

client.subscribe("Moisture/#")

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

if msg.payload == "Moisture sensor is on for tank 2":

while True:

while True:

if GPIO.input(channel):

client.publish("SaveWater/C2Tank2","No Water Detected tank 2")

print("The tank is not yet full")

time.sleep(1)

else:

client.publish("SaveWater/C2Tank2","Water Detected tank 2")

print("The tank is full you need you turn off the motor")

time.sleep(1)

break

break

client.on\_connect = on\_connect

client.on\_message = on\_message

client.loop\_forever()

GPIO.cleanup()

#

#GPIO.add\_event\_callback(channel, callback)

#while True:

# AO or A - is no wire inserted

# DO or B - wire is connected to GPIO21

# GND or C - wire is connected to GND

# VCC or D - is connected to 3v3