\*/

#include<SoftwareSerial.h>

SoftwareSerial gsm(2,3);

//the pins used:

const int analogInPin = A0; // Analog input pin that the potentiometer is attached to

int sensorValue = 0; // value read from the pot

int outputValue = 0;

int PUM=11;

int temp1=0;

int temp2=0;

void setup() {

pinMode(11,OUTPUT);

// initialize serial communications at 9600 bps:

delay(10000);

Serial.begin(9600);

gsm.begin(9600);

}

void loop() {

// read the analog in value:

sensorValue = analogRead(analogInPin);

// map it to the range of the analog out:

outputValue = map(sensorValue, 0, 1023, 0, 100); //maps the adc values to 0 to 100%

// print the results to the serial monitor:

Serial.print("Soil Moisture Level = ");

Serial.print(outputValue);

Serial.println(" %");

if(outputValue < 35)

{

digitalWrite(11,HIGH);

Serial.println("PUMP OFF");

if(temp2==0)

{

gsm.println("AT+CMGF=1");

delay(1000);

gsm.println("AT+CMGS=\"+919999999999\"\r"); //replace your number

delay(1000);

gsm.println("MOTOR OFF");

delay(100);

gsm.println((char)26);

delay(1000);

temp2++;

}

else{

Serial.println("msg already send");

}

}

else{

digitalWrite(11,LOW);

Serial.println("PUMP ON");

if(temp1==0)

{

gsm.println("AT+CMGF=1");

delay(1000);

gsm.println("AT+CMGS=\"+919999999999\"\r"); //replace your number

delay(1000);

gsm.println("MOTOR ON");

delay(100);

gsm.println((char)26);

delay(1000);

temp1++;

}

else{

Serial.println("msg already send");

}

}

delay(1000);

}