// C++ code

//

#include<Servo.h>

Servo s;

void setup()

{

Serial.begin(9600);

pinMode(4,INPUT);

pinMode(2, INPUT);

pinMode(2, OUTPUT);

s.attach(3);

}

void loop()

{

double a = analogRead(A0);

double c = (((a/1024)\*5)-0.5)\*100;

Serial.print("Celusius Value: ");

Serial.println(c);

delay(1000);

if (c>50)

digitalWrite(13,HIGH);

else

digitalWrite(13,LOW);

int p = digitalRead(4);

Serial.println(p);

if (p==1){

Serial.println("motion detected");

delay(1000);

}

else{

Serial.println("mption not detected");

delay(1000);

}

s.write(0);

delay(1000);

s.write(30);

delay(1000);

s.write(60);

delay(1000);

s.write(130);

delay(1000);

s.write(1800);

delay(1000);

}