#include<Servo.h>

Servo s;

int buzz=12;

void setup()

{

Serial.begin(9600);

pinMode(13, OUTPUT);

pinMode(buzz,OUTPUT);

pinMode(4,INPUT);

s.attach(3);

}

void loop()

{

for(int i=0;i<=180;i=i+10)

{

s.write(i);

digitalWrite(13, HIGH);

delay(1000);

digitalWrite(13, LOW);

delay(1000);

}

for(int p=0;p<=180;p=p++)

{

double a = analogRead(A0);

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

Serial.print("celcius value:");

Serial.println(c);

if(c>60)

{

tone(buzz,200);

delay(250);

noTone(buzz);

tone(buzz,200);

delay(250);

tone(buzz,200);

delay(250);

noTone(buzz);

tone(buzz,200);

delay(250);

noTone(buzz);

}

else

delay(100);

}

int v = digitalRead(4);

if(v==1)

{

Serial.println("motion detected");

delay(100);

}

else

{

Serial.println("motion not detected");

delay(100);

}

}