#include <Servo.h>

Servo s;

void setup()

{

Serial.begin(9600);

pinMode(13,OUTPUT);

s.attach(3);

}

void loop()

{

double a = analogRead (A0);

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

Serial.print("Temperature value:");

Serial.println(t);

if (t>100){

digitalWrite(13,1);

{

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

{

s.write(i);

delay(10); // Wait for 10 millisecond(s)

}

for (int i = 180; i >= 0; i--)

{

s.write(i);

delay(10); // Wait for 10 millisecond(s)

}

}}

else{

digitalWrite(13,0);

delay(1000);

}}