const int led=7;

const int fan=11;

const int PIR=8;

const int buzz=5;

void setup()

{

pinMode(led,OUTPUT);

pinMode(PIR,INPUT);

pinMode(buzz,OUTPUT);

}

void light(){

int light=analogRead(A1);

if(light<500){

digitalWrite(led, LOW);

}else{

digitalWrite(led, HIGH);

}

}

void fanFunction(){

int temperature=analogRead(A5);

int volt=temperature\*5.0/1023.0;

int range=(volt-0.5)\*100;

if(range>25){

digitalWrite(fan,HIGH);

}else{

digitalWrite(fan,LOW);

}

}

void motionDetector(){

int state=digitalRead(PIR);

if(state==HIGH){

tone(buzz,500,1000);

delay(1000);

}else{

noTone(buzz);

}

}

void loop()

{

light();

fanFunction();

motionDetector();

}