void setup()

{

Serial.begin(9600);

pinMode(A2,INPUT);

pinMode(12,OUTPUT);

pinMode(2,INPUT);

}

void loop()

{

double data=analogRead(A2);

double n=data/1024;

double volt=n\*5;

double off=volt-0.5;

double temperature=off\*100;

Serial.print("Temperature data: ");

Serial.println(temperature);

int motion=digitalRead(2);

Serial.print("position is :");

Serial.println(motion);

if(motion==1){

Serial.println("Motion detected");

tone(12,1000);

delay(2002);

}

else{

Serial.println("No Motion");

noTone(12);

delay(200);

}

if(temperature >=60)

{

tone(12,3000);

delay(200);

}

else

{

noTone(12);

delay(200);

}

}

