**CODE**

void setup()

{

Serial.begin(9600);

pinMode(5,INPUT);

pinMode(12,OUTPUT);

}

void loop()

{

int motion=digitalRead(5);

Serial.print("Motion Detected: ");

Serial.println(motion);

double d=analogRead(A0);

double n=d/1024;

double volt=n\*5;

double off=volt-0.5;

double temp=off\*100;

Serial.print("Temperature is ");

Serial.println(temp);

if(motion==1)

{

tone(12,100,100);

}

else if (temp>60)

{

tone(12,200,10);

}

else

{

noTone(12);

}

}

**OUTPUT**

