

```

// C++ code

//

void setup()
{
  Serial.begin(9600);
  pinMode(4,INPUT); // for PIR
  pinMode(13, OUTPUT); // for peizo
}

void loop()
{
  double data = analogRead(A1);
  double n = data/1024;

  double volt = n * 5; //because connected to 5V
  double off = volt - 0.5;
  double temperature = off * 100;

  if(temperature > 60){
    Serial.print("-----TMP-----\n");
    Serial.print("Temperature is above 60C: ");
    Serial.print(temperature);
    Serial.println("C");

    tone(13,1800,100); //freq 1000 Hz,delay 100 ms
    delay(1000);
  }
}

```

```
tone(13,1800,1000); //freq 1000 Hz,delay 1 sec
delay(100);

}

else{
    Serial.print("-----TMP-----\n");
    Serial.print("Temperature is below 60C: ");
        Serial.print(temperature);
        Serial.println("C");
    Serial.print("\n\n");

    noTone(13);

}
```

```
// for PIR

int motion = digitalRead(4);
Serial.print("-----PIR-----\n");
Serial.print("Position is: ");
Serial.println(motion);

if(motion == 1){
```

```
Serial.println("Motion Detected");

// For peizo

tone(13,1000,100); //freq 1000 Hz,delay 100 ms

    delay(1000);

    tone(13,1000,1000); //freq 1000 Hz,delay 1 sec

    delay(100);


}

else{

    Serial.println("No Motion");

    noTone(13);

}

}
```