// C++
code

```
//

int ledPin = 5;

int inputPin=8;

int pirState = LOW;

int val = 0;

const int buzzerPin = 13;

void setup()

{

  pinMode(5,OUTPUT);

  pinMode(8,INPUT);

  pinMode(buzzerPin, OUTPUT);

  Serial.begin(9600);

}

void loop()

{

  val = digitalRead(inputPin);  // read input value

if (val == HIGH)

{
```

```
  // check if the input is HIGH
 digitalWrite(ledPin, HIGH); // turn LED ON
 delay(1000);
 digitalWrite(ledPin, LOW);
 delay(1000);
 if (pirState == LOW)
{
  // we have just turned on
 Serial.println("Motion detected!");
 // We only want to print on the output change,
not state
 pirState = HIGH;
}
  else
  {
 digitalWrite(ledPin, LOW); // turn LED OFF
if (pirState == HIGH)
{
// we have just turned of
```

```
Serial.println("Motion ended!");
// We only want to print on the output change, not state
pirState = LOW;
 }}

delay(1000);

}
{
    double b = analogRead(A0);
    double t = (((b/1024)*5)-0.5)*100;
    Serial.print("Temperature value:"); // temperature
detection
    Serial.println(t);
    delay (1000);
  if ( t >=100)
   {
     digitalWrite(buzzerPin, HIGH); // if high temperature
buzzer on
```

```
  }
  else
  {
    digitalWrite(buzzerPin, LOW);  // if low temperature
no buzzer on


  }}
}
```