int led = 13;

int sensor = 2;

int state = LOW;

int val = 0;

const int buzzer = 3;

const int buzz = 6;

float temp;

int tempPin = 0;

void setup() {

  pinMode(led, OUTPUT);

  pinMode(sensor, INPUT);

  pinMode (buzzer, OUTPUT);

  pinMode (buzz, OUTPUT);

  Serial.begin(9600);   }

```
void loop(){
 temp = analogRead(tempPin);
  temp = temp * 0.48828125;
  Serial.print("TEMPERATURE = ");
 Serial.print(temp);
Serial.print("*C");
 Serial.println();
 delay(1000);
if(temp>=60)
{
  digitalWrite(buzzer,HIGH);
  delay(3000);
  digitalWrite(buzzer,LOW);
  delay(1000);
}

val = digitalRead(sensor);
if (val == HIGH) {
  digitalWrite(led, HIGH);
  digitalWrite(buzz,HIGH);
  delay(1000);
  digitalWrite(buzz,LOW);


  if (state == LOW) {
   Serial.println("Motion detected!");
   state = HIGH;
  }
}
```

```
  else {
    digitalWrite(led, LOW);
    delay(500);

    if (state == HIGH){
      Serial.println("Motion stopped!");
      state = LOW;
    }
  }
}
```