



Code:

```
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(200);

    digitalWrite(buzzer,LOW);

    delay(200);

  }


  val = digitalRead(sensor);

  if (val == HIGH) {

    digitalWrite(led, HIGH);

    tone(buzz, 10000,500);

    delay(200);

    noTone(buzz);

    delay(200);


    if (state == LOW) {

      Serial.println("Motion detected!");

      state = HIGH;

    }

  }

}
```

```
else {  
    digitalWrite(led, LOW);  
    delay(500);  
  
    if (state == HIGH){  
        Serial.println("Motion stopped!");  
        state = LOW;  
    }  
}  
}
```