



```
#include <Servo.h>

Servo myservo;

const int PIR = 2;

const int LED = 13;

const int BUZZER = 10;

int pir_a = 0;

void setup() {
  pinMode(LED, OUTPUT);
  pinMode(BUZZER, OUTPUT);
  pinMode(PIR, INPUT);
  Serial.begin(9600);
  myservo.attach(3);
}

void loop() {
  pir_a = digitalRead(PIR);
  if (pir_a == HIGH) {
    digitalWrite(LED, HIGH);
    digitalWrite(BUZZER, LOW);
    Serial.println("detecting");
    myservo.write(180);
  }
  else {
    digitalWrite(LED, LOW);
    digitalWrite(BUZZER, HIGH);
    Serial.println("no movement");
    myservo.write(-180);
  }
}
```

