



```
#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);
    }
}
```