



```
#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);

    }

}
```

