

```

int ledPin = 4;                // Pin LED is connected to
int piezoBuzzerPin = 3;       // Pin Piezo Buzzer is connected to
int pirSensorPin = 2;         // PIN PIR Sensor is connected to
int i = 0;

int motionDetected = LOW;     // Start MotionDetected as low (No motion
detected)

void setup() {
  pinMode(ledPin, OUTPUT);    // declare LED as output
  pinMode(pirSensorPin, INPUT); // declare the PIR sensor as input
  pinMode(piezoBuzzerPin, OUTPUT); //declare buzzer as output
  Serial.begin(9600); //Set serial out if we want debugging
  delay(10000); //Allow 10 seconds time for the PIR Sensor to calibrate
}

void loop() {
  motionDetected = digitalRead(pirSensorPin); // Read the PIR sensor
  if(motionDetected == HIGH) //Buzz
  {
    digitalWrite(ledPin, HIGH);
    analogWrite(piezoBuzzerPin, 200);
    delay(100);
    analogWrite(ledPin, LOW);
    analogWrite(piezoBuzzerPin, 25);
    delay(100);
  }
  //If motion is not detected, dont buzz
  digitalWrite(ledPin, LOW);
  digitalWrite(piezoBuzzerPin, LOW);
}

```