```
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(30000); //Allow 30 seconds time for the PIR Sensor to calibrate
}

void loop() {
  motionDetected = digitalRead(pirSensorPin);   // Read the PIR sensor
  if(motionDetected == HIGH) //When motion is detected
  {
    digitalWrite(ledPin, HIGH);
    analogWrite(piezoBuzzerPin, 200);
    delay(100);
    analogWrite(ledPin, LOW);
    analogWrite(piezoBuzzerPin, 25);
    delay(100);
  }
  digitalWrite(ledPin, LOW);
  digitalWrite(piezoBuzzerPin,LOW);
  }

}
```