

```
int pirPin = 7;          // Pin connected to PIR sensor OUT
int ledPin = 13;         // Pin connected to LED (optional)

void setup() {
  pinMode(pirPin, INPUT); // Set PIR sensor pin as input
  pinMode(ledPin, OUTPUT); // Set LED pin as output (optional)
  Serial.begin(9600);      // Start serial communication
}

void loop() {
  int motion = digitalRead(pirPin); // Read the state of the PIR sensor

  if (motion == HIGH) {
    // Motion detected
    digitalWrite(ledPin, HIGH); // Turn ON LED (optional)
    Serial.println("PIR Motion Detected !");
  } else {
    // No motion
    digitalWrite(ledPin, LOW); // Turn OFF LED (optional)
    Serial.println("PIR not detected any motion");
  }

  delay(1000); // Small delay to prevent excessive serial printing
}
```