





```
1  int led = 13;
2  int sensor = 2;
3  int state = LOW;
4  int val = 0;
5
6  void setup() {
7      pinMode(led, OUTPUT);
8      pinMode(sensor, INPUT);
9      Serial.begin(9600);
10 }
11
12 void loop() {
13     val = digitalRead(sensor);
14     if (val == HIGH) {
15         digitalWrite(led, HIGH);
16         delay(500);
17
18         if (state == LOW) {
19             Serial.println("Motion detected!");
20             state = HIGH;
21         }
22     }
23     else {
24         digitalWrite(led, LOW);
25         delay(500);
26
27         if (state == HIGH) {
28             Serial.println("Motion stopped!");
```





```
14   if (val == HIGH) {  
15       digitalWrite(led, HIGH);  
16       delay(500);  
17  
18       if (state == LOW) {  
19           Serial.println("Motion detected!");  
20           state = HIGH;  
21       }  
22   }  
23   else {  
24       digitalWrite(led, LOW);  
25       delay(500);  
26  
27       if (state == HIGH) {  
28           Serial.println("Motion stopped!");  
29           state = LOW;  
30       }  
31   }  
32 }
```



Serial Monitor