/\*PIR Movement Sensor

 \* Modified by Pat McMahon 4/7/2021

 \* A041-MFS9

 \* PIR sensor tester

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int ledPin = 11; // choose the pin for the LED

int inputPin = 5; // choose the input pin (for PIR sensor)

int pirState = LOW; // we start, assuming no motion detected

int val = 0; // variable for reading the pin status

void setup() {

 pinMode(ledPin, OUTPUT); // declare LED as output

 pinMode(inputPin, INPUT); // declare sensor as input

 Serial.begin(9600);

}

void loop(){

 val = digitalRead(inputPin); // read input value

 if (val == HIGH) { // check if the input is HIGH

 digitalWrite(ledPin, HIGH); // turn LED ON

 if (pirState == LOW) {

 // we have just turned on

 Serial.println("Motion detected!");

 // We only want to print on the output change, not state

 pirState = HIGH;

 }

 } else {

 digitalWrite(ledPin, LOW); // turn LED OFF

 if (pirState == HIGH){

 // we have just turned of

 Serial.println("Motion ended!");

 // We only want to print on the output change, not state

 pirState = LOW;

 }

 }

}