const int pirPin = 2; // PIR sensor connected to digital pin 2

const int buzzerPin = 3; // Buzzer connected to digital pin 3

int pirState = LOW; // Variable to store PIR sensor state

int lastPirState = LOW; // Variable to store previous PIR sensor state

void setup() {

pinMode(pirPin, INPUT);

pinMode(buzzerPin, OUTPUT);

Serial.begin(9600);

}

void loop() {

pirState = digitalRead(pirPin); // Read PIR sensor state

if (pirState == HIGH && lastPirState == LOW) {

// Motion detected, trigger alarm

digitalWrite(buzzerPin, HIGH);

Serial.println("Motion detected! Alarm activated.");

delay(500); // Buzzer on time

} else if (pirState == LOW && lastPirState == HIGH) {

// Motion stopped, turn off alarm

digitalWrite(buzzerPin, LOW);

Serial.println("Motion stopped. Alarm deactivated.");

delay(500); // Buzzer off time

}

lastPirState = pirState; // Save current PIR state for the next iteration

}