const int pirPin = 2;   // PIR sensor output pin

const int ledPin = 9; // LED pin

const int buzPin = 3;

int motionState = LOW;   // Initial state of motion

void setup() {

  Serial.begin(9600);          // Start serial communication

  pinMode(pirPin, INPUT);      // Set PIR sensor pin as input

  pinMode(ledPin, OUTPUT);     // Set LED pin as output

  pinMode(buzPin, OUTPUT);

}

void loop() {

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

  if (motionState == HIGH) {

    digitalWrite(ledPin, HIGH); // Turn on LED

    digitalWrite(buzPin, HIGH);

    Serial.println("Motion detected!"); // Print message

    delay(100); // Delay to prevent flooding Serial Monitor

  } else {

    digitalWrite(ledPin, LOW);  // Turn off LED

    digitalWrite(buzPin, LOW);

  }

  delay(100); // Small delay to improve responsiveness

}