WhatsApp | Smart Home - Wokwi Arduino

https://wokwi.com/projects/350088015234728530

Getting Started

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sketch.ino ● diagram.json libraries.txt Library Manager

```
/*
  PIR sensor tester
*/

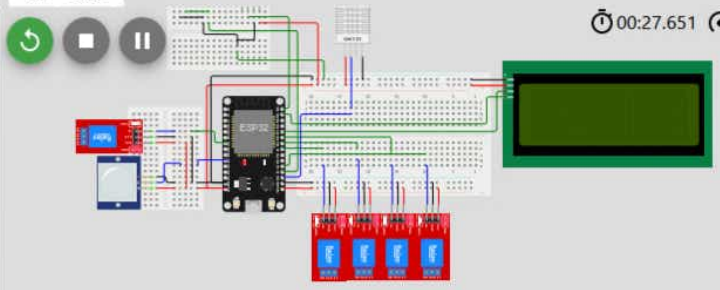
int ledPin = 12;                // choose the pin for the LED
int inputPin = 14;               // choose the input pin (for PIR sensor)
int pirState = LOW;             // we start, assuming no motion detected
int val = 0;                    // variable for reading the pin status

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
```

Simulation



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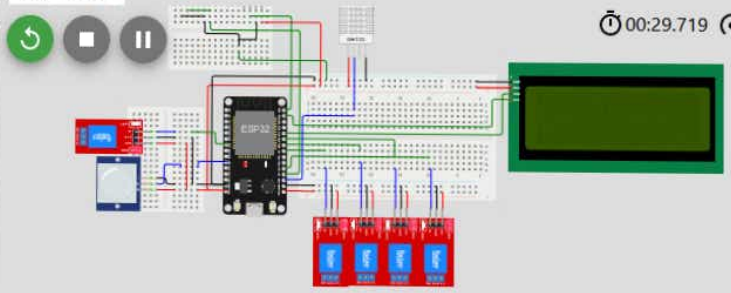
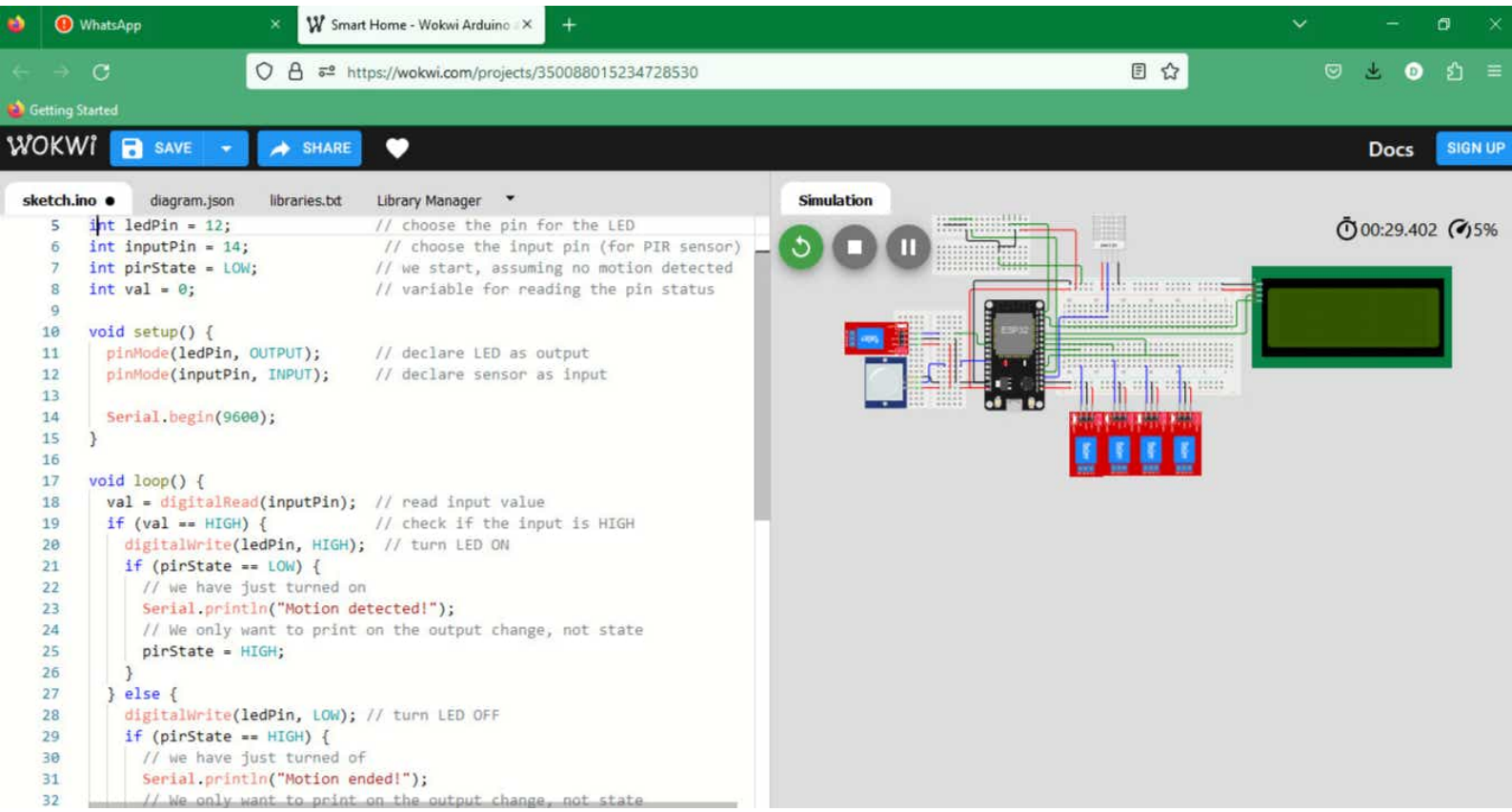
Simulation

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// 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
Simulation
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10  void setup() {
11    pinMode(ledPin, OUTPUT);      // declare LED as output
12    pinMode(inputPin, INPUT);     // declare sensor as input
13
14    Serial.begin(9600);
15  }
16
17  void loop() {
18    val = digitalRead(inputPin);  // read input value
19    if (val == HIGH) {            // check if the input is HIGH
20      digitalWrite(ledPin, HIGH);  // turn LED ON
21      if (pirState == LOW) {
22        // we have just turned on
23        Serial.println("Motion detected!");
24        // We only want to print on the output change, not state
25        pirState = HIGH;
26      }
27    } else {
28      digitalWrite(ledPin, LOW); // turn LED OFF
29      if (pirState == HIGH) {
30        // we have just turned of
31        Serial.println("Motion ended!");
32        // We only want to print on the output change, not state
33        pirState = LOW;
34      }
35    }
36  }
```

Simulation

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