Arduino binaire à LED

A circuit board with wires connected to it

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#include "Arduino.h"

#define CABIN\_LIGHTS\_SWITCH\_PIN 2

#define CABIN\_LIGHTS\_SWITCH\_PIN2 3

#define CABIN\_LIGHTS\_SWITCH\_PIN3 4

bool conditionMet1 = false;

bool conditionMet2 = false;

bool conditionMet3 = false;

int previousSwitchState = 0;

void setup() {

  Serial.begin(9600);

  pinModeSwitches();

}

void loop() {

  checkSwitch(CABIN\_LIGHTS\_SWITCH\_PIN, conditionMet1);

  checkSwitch(CABIN\_LIGHTS\_SWITCH\_PIN2, conditionMet2);

  checkSwitch(CABIN\_LIGHTS\_SWITCH\_PIN3, conditionMet3);

  updateSwitchState();

}

void pinModeSwitches() {

  pinMode(CABIN\_LIGHTS\_SWITCH\_PIN, INPUT);

  pinMode(CABIN\_LIGHTS\_SWITCH\_PIN2, INPUT);

  pinMode(CABIN\_LIGHTS\_SWITCH\_PIN3, INPUT);

}

void checkSwitch(int switchPin, bool &conditionMet) {

  if (digitalRead(switchPin) == HIGH && !conditionMet) {

    conditionMet = true;

  }

  if (digitalRead(switchPin) == LOW && conditionMet) {

    conditionMet = false;

  }

}

void updateSwitchState() {

  int switchState = 0;

  if (conditionMet1) {

    switchState += 1;

  }

  if (conditionMet2) {

    switchState += 2;

  }

  if (conditionMet3) {

    switchState += 4;

  }

  if (switchState != previousSwitchState) {

    Serial.print("led: ");

    Serial.println(switchState + 6);

    previousSwitchState = switchState;

    for (int pin = 7; pin <= 13; pin++) {

      digitalWrite(pin, LOW);

    }

    digitalWrite(switchState + 6, HIGH);

  }

}