Maximilian PHILIPP 11839611 Mithwoch NM Michael Hinterleitner 12002411 GRUPPE 7 PAP Lufache Globals void loop() #define A2_G10 void setup() #define A2_R9 #define A1_R13 #define A1_Y 12 #define A1 G11 in case the sensor value sensorValue = #define LIGHT_SENSOR 19 is outside the range seen size_t i = 0 analogRead(LIGHT_SENSOR); #define NUM_WARN_BLINKS4 during calibration char pins[5] = {A2_G, A2_R, sensorValue = i <= sizeof(pins)? apply the calibration to A1_R, A1_Y, A1_G}; constrain(sensorValue, the sensor reading sensorMin, sensorMax); const byte interruptPin = 2; volatile bool pressed = false; the sensor value sensorValue = map(sen sor Value, sensorMin, sensorMax, 0, 255); Switch to Night mode volatile bool night = false; Serial.println(sensorValue); attachInterrupt(digitalPinToInterrupt(interruptPin), handleRequest_, RISING); int sensorValue = 0; minimum sensor value digitalWrite(A1_G, HIGH); calibrate during the first digitalWrite(A1_Y, LOW); pinMode(pins[i], OUTPUT); five seconds digitalWrite(A1_R, LOW); sensorValue < int sensorMin = 1023: maximum sensor value 100 && !night ? digitalWrite(A2_G, LOW); digitalWrite(A2_R, HIGH); int sensorMax = 0; End calibrate_(); Serial.begin(9600); digitalWrite(A1_G, LOW); digitalWrite(A1_R, LOW); digitalWrite(A2_G, LOW); Switch to Day mode digitalWrite(A2_R, LOW); night = true; End intrp. Colibration sensorValue > void calibrate_() 150 && night ? void schaltSequenz () void handleRequest () millis() < 5000 ? Green Blinking phase digitalWrite(A1_G, HIGH); !pressed ? digitalWrite(A1_R, LOW); digitalWrite(A2_G, LOW); No Night mode digitalWrite(A2_R, HIGH); size_ti=0 Yes End night = false; sensorValue = record the maximum analogRead(LIGHT_SENSOR); pressed = false; sensor value pressed = true; i< NUM_WARN_BLINKS? night? sensorValue > sensorMax? End No \ Yes digitalWrite(A1_G, LOW); pressed? delay(1000); record the minimum digitalWrite(A1_G, LOW); Ye low phase sensorMax = sensorValue; digitalWrite(A1_G, HIGH); sensor value delay(1000); digitalWrite(A1_Y, HIGH); delay(1000); Yes digitalWrite(A1_Y, LOW); sensorValue < sensorMin? delay(1000); digitalWrite(A1_Y, HGH); GO phase delay(1000); schaltSequenz_(); sensorMin = sensorValue; digitalWrite(A1_Y, LOW); (End) digitalWrite(A1_R, HIGH); Green Blinking digitalWrite(A2_R, LOW); phase for walkers digitalWrite(A2_G, HIGH); delay(5000); $size_ti = 0$ i< NUM_WARN_BLINKS? digitalWrite(A2_G, LOW); delay(1000); STOP for walkers digitalWrite(A2_G, LOW); digitalWrite(A2_G, HIGH); and Transition Car delay(1000); digitalWrite(A2_R, HIGH); digitalWrite(A1_Y, HGH); Car go space delay(1000); digitalWrite(A1_Y, LOW); digitalWrite(A1 R, LOW); digitalWrite(A1_G, HIGH); pressed = false; End

