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#define PIN_DRIVE_GREEN 2
#define PIN_DRIVE_YELLOW 3
#define PIN_DRIVE_RED 4
#define PIN_BRIGHT 7
#define PIN_WALK_GREEN_LA 10
#define PIN_WALK_RED_LA 11
// Pins für Füßgänger sind Low Active (LA)
void setup()
    // Übertragungsrate auf 9600 Baud
    Serial.begin(9600);
    // Senden über Seriell
    Serial.println("Hallo");
    // Setze Pins auf Ausgang oder Eingang
    pinMode(PIN_WALK_GREEN_LA, OUTPUT);
   pinMode(PIN_WALK_RED_LA, OUTPUT);
    pinMode(PIN_DRIVE_GREEN, OUTPUT);
   pinMode(PIN_DRIVE_YELLOW, OUTPUT);
    pinMode(PIN_DRIVE_RED, OUTPUT);
    pinMode(PIN_BRIGHT, INPUT);
    // Fußgänger LEDs auf HIGH ausgeschalten
    digitalWrite(PIN_WALK_GREEN_LA, HIGH);
    digitalWrite(PIN_WALK_RED_LA, HIGH);
// Aktuelle Ampelphase, Geht von 0 bis 5
int ampel_index = 0;
// Gelb blinken
bool blink = false;
int received_byte = 0;
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if (blink)
   // Ampelphase zurücksetzen
    ampel_index = 0;
    // LEDs ausschalten außer Gelb
    digitalWrite(PIN_WALK_GREEN_LA, HIGH);
    digitalWrite(PIN_WALK_RED_LA, HIGH);
    digitalWrite(PIN_DRIVE_GREEN, LOW);
    digitalWrite(PIN_DRIVE_RED, LOW);
    // Gelb blinken
    digitalWrite(PIN_DRIVE_YELLOW, !digitalRead(PIN_DRIVE_YELLOW));
   delay(1000);
}
else
   // Ampel
    switch (ampel_index)
    case 0:
       // LEDs anschalten
        digitalWrite(PIN_DRIVE_GREEN, HIGH);
        digitalWrite(PIN_WALK_RED_LA, LOW);
       // LEDs ausschalten
        digitalWrite(PIN_DRIVE_RED, LOW);
        digitalWrite(PIN_DRIVE_YELLOW, LOW);
        delay(2000);
       break;
    case 1:
       // LEDs anschalten
        digitalWrite(PIN_DRIVE_YELLOW, HIGH);
        // LEDs ausschalten
        digitalWrite(PIN_DRIVE_GREEN, LOW);
        delay(800);
        break;
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case 2:
       // LEDs anschalten
        digitalWrite(PIN_DRIVE_RED, HIGH);
       // LEDs ausschalten
        digitalWrite(PIN_DRIVE_YELLOW, LOW);
        delay(2000);
       break;
   case 3:
       // LEDs anschalten
       digitalWrite(PIN_WALK_GREEN_LA, LOW);
       // LEDs ausschalten
       digitalWrite(PIN_WALK_RED_LA, HIGH);
        delay(2000);
       break;
   case 4:
       // LEDs anschalten
       digitalWrite(PIN_WALK_RED_LA, LOW);
       // LEDs ausschalten
       digitalWrite(PIN_WALK_GREEN_LA, HIGH);
       delay(2000);
       break;
   case 5:
       // LEDs anschalten
        digitalWrite(PIN_DRIVE_YELLOW, HIGH);
       delay(800);
        // Ampelindex wird auf 0 im nächsten Schritt gemacht
        ampel_index = -1;
ampel_index++;
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