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/*
 * SamD21_blink.c
 *
 * Hardware WeMos SAMD21 mini or Robotdyn SAMD21 M0-mini
 * Created: 14-10-2020 12:27:43
 * Author : Erik
 * toggles TX_LED (PA27) and RX_LED (PB03)
 */

#include "sam.h"

#define TX_LED (1<<27)    // TX_LED at PA27
#define RX_LED (1<<3)    // RX_LED at PB03

// simple loop delay function approx. 1 msec.
void delay(int n)
{
    int i;

    for (;n >0; n--)
    {
        for (i=0;i<100;i++)
            __asm("nop");
    }
}

int main()
{
    REG_PORT_DIR0 |= TX_LED; // TX_LED = PA27 as output
    REG_PORT_DIR1 |= RX_LED; // RX_LED = PB03 as output
    while (1)
    {
        REG_PORT_OUT0 &= ~TX_LED; // TX_LED = 0
        REG_PORT_OUT1 |= RX_LED;  // RX_LED = 1
        delay(500);
        REG_PORT_OUT0 |= TX_LED;  // TX_LED = 1
        REG_PORT_OUT1 &= ~RX_LED; // RX_LED = 0
        delay(500);
    }
}

```