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/\*\*

\* @file ThreeLEDs.c

\* @brief Application entry point.

\*/

#include <stdio.h>

#include "MK64F12.h"

#include "DataTypeDefinitions.h"

void delay(uint16 delay);

/\*

\* @brief Application entry point.

\*/

int main(void) {

/\*\*Activating the GPIOB and GPIOE clock gating\*/

SIM->SCGC5 = 0x2400;

/\*\*Pin control configuration of GPIOB pin22 and pin21 as GPIO\*/

PORTB->PCR[21] = 0x00000100;

PORTB->PCR[22] = 0x00000100;

PORTE->PCR[26] = 0x00000100;

/\*\*Assigns a safe value to the output pin21 of the GPIOB\*/

GPIOB->PDOR = 0x00200000;

/\*\*Assigns a safe value to the output pin22 of the GPIOB\*/

GPIOB->PDOR |= 0x00400000;

/\*\*Assigns a safe value to the output pin26 of the GPIOE\*/

GPIOE->PDOR |= 0x04000000;

/\*\*Configures GPIOB pin21 as output\*/

GPIOB->PDDR = 0x00200000;

/\*\*Configures GPIOB pin22 as output\*/

GPIOB->PDDR |= 0x00400000;

/\*\*Configures GPIOE pin26 as output\*/

GPIOE->PDDR |= 0x04000000;

while(1) {

GPIOB->PDOR |= 0x00200000;/\*\*Blue led off\*/

delay(65000);

GPIOB->PDOR |= 0x00400000;/\*\*Read led off\*/

delay(65000);

GPIOE->PDOR |= 0x4000000;/\*\*Green led off\*/

delay(65000);

GPIOB->PDOR &= ~(0x00200000);/\*\*Blue led on\*/

delay(65000);

GPIOB->PDOR &= ~(0x00400000);/\*\*Read led on\*/

delay(65000);

GPIOE->PDOR &= ~(0x4000000);/\*\*Green led on\*/

delay(65000);

GPIOB->PDOR |= 0x00200000;/\*\*Blue led off\*/

delay(65000);

GPIOB->PDOR |= 0x00400000;/\*\*Read led off\*/

delay(65000);

GPIOE->PDOR |= 0x4000000;/\*\*Green led off\*/

delay(65000);

/\*\*---------------------------------------------------\*/

/\*\*---------------------------------------------------\*/

\_\_NOP();/\*\* THIS a assembly macro\*/

}

return 0 ;

}

////////////////////////////////////////////////////////////////////////////////

// EOF

////////////////////////////////////////////////////////////////////////////////

void delay(uint16 delay)

{

volatile uint16 counter;

for(counter=delay; counter > 0; counter--)

{

}

}