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// Project: Keil Labs and Project
// File: port.c
// Class: ENEL 351 Lab Works
// Programmer: Amandip Padda
// SID: 200455829
// Description: The project is based on the STM32F103RB that is being used in ENEL 351 Labs.
// It will also be used in the Project related to input and output of various sensors.
//
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#include "stm32f10x.h"
#include "header.h"
void portEnable(void)
{
RCC -> APB2ENR |= RCC_APB2ENR_IOPAEN;
   RCC -> APB2ENR |= RCC_APB2ENR_IOPBEN;
   RCC -> APB2ENR |= RCC_APB2ENR_IOPCEN;
   //RCC -> APB2ENR |= RCC_APB2ENR_IOPDEN;
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RCC -> APB2ENR |= RCC_APB2ENR_AFIOEN;
RCC -> APB2ENR |= RCC_APB2ENR_ADC1EN;
     ADC1 -> CR2 = 0x00000001;
     RCC -> APB2ENR |= RCC_APB2ENR_ADC2EN;
     ADC2 -> CR2 = 0x00000001;
RCC -> APB1ENR |= RCC_APB1ENR_TIM2EN;
     RCC -> APB1ENR |= RCC_APB1ENR_TIM3EN;
AFIO -> EXTICR[1] |= AFIO_EXTICR2_EXTI5_PB; // Sets to trigger Line 5 External Interrupt
     EXTI -> IMR |= (1 << 5); // Enable Interrupt on Line 5
     EXTI -> RTSR |= (1 << 5); // Rising Edge Trigger on Line 5
     EXTI -> FTSR &= ~(1 << 5); // Falling Edge Trigger on Line 5
     AFIO -> EXTICR[1] |= AFIO_EXTICR2_EXTI6_PB; // Sets to trigger Line 6 External Interrupt
     EXTI -> IMR |= (1 << 6); // Enable Interrupt on Line 6
     EXTI -> RTSR |= (1 << 6); // Rising Edge Trigger on Line 5
     EXTI -> FTSR &= ^(1 << 6); // Falling Edge Trigger on Line 5
     NVIC_SetPriority(EXTI9_5_IRQn, 0x00); // Priority High
     NVIC_EnableIRQ(EXTI9_5_IRQn);
                                // Enable
}
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//
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