/\*\*

Generated Main Source File

Company:

Microchip Technology Inc.

File Name:

main.c

Summary:

This is the main file generated using PIC10 / PIC12 / PIC16 / PIC18 MCUs

Description:

This header file provides implementations for driver APIs for all modules selected in the GUI.

Generation Information :

Product Revision: PIC10 / PIC12 / PIC16 / PIC18 MCUs - 1.81.7

Device: PIC18F26K20

Driver Version: 2.00

\*/

/\*

(c) 2018 Microchip Technology Inc. and its subsidiaries.

Subject to your compliance with these terms, you may use Microchip software and any

derivatives exclusively with Microchip products. It is your responsibility to comply with third party license terms applicable to your use of third party software (including open source software) that may accompany Microchip software.

THIS SOFTWARE IS SUPPLIED BY MICROCHIP "AS IS". NO WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, APPLY TO THIS SOFTWARE, INCLUDING ANY IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT WILL MICROCHIP BE LIABLE FOR ANY INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL LOSS, DAMAGE, COST OR EXPENSE OF ANY KIND WHATSOEVER RELATED TO THE SOFTWARE, HOWEVER CAUSED, EVEN IF MICROCHIP HAS BEEN ADVISED OF THE POSSIBILITY OR THE DAMAGES ARE FORESEEABLE. TO THE FULLEST EXTENT ALLOWED BY LAW, MICROCHIP'S TOTAL LIABILITY ON ALL CLAIMS IN ANY WAY RELATED TO THIS SOFTWARE WILL NOT EXCEED THE AMOUNT OF FEES, IF ANY, THAT YOU HAVE PAID DIRECTLY TO MICROCHIP FOR THIS SOFTWARE.

\*/

#include "mcc\_generated\_files/mcc.h"

/\*

Main application

\*/

char data;

void send\_string(const char \*x){

while (\*x){

EUSART\_Write(\*x++);

}

}

void main(void)

{

// Initialize the device

SYSTEM\_Initialize();

// If using interrupts in PIC18 High/Low Priority Mode you need to enable the Global High and Low Interrupts

// If using interrupts in PIC Mid-Range Compatibility Mode you need to enable the Global and Peripheral Interrupts

// Use the following macros to:

// Enable the Global Interrupts

//INTERRUPT\_GlobalInterruptEnable();

// Disable the Global Interrupts

//INTERRUPT\_GlobalInterruptDisable();

// Enable the Peripheral Interrupts

//INTERRUPT\_PeripheralInterruptEnable();

// Disable the Peripheral Interrupts

//INTERRUPT\_PeripheralInterruptDisable();

char \* welcome\_msg1= "Welcome to CO326 Lab3";

char \* welcome\_msg2= "Press 1 for Red, 2 for Yellow, 3 for Green ... \n";

char \* add\_line="\n \r";

// welcome messages on startup

send\_string(welcome\_msg1);

send\_string(add\_line);

\_\_delay\_ms(500); // delay of 500ms

send\_string(welcome\_msg2);

send\_string(add\_line);

while (1)

{

//read input

data=EUSART\_Read();

//input checking

switch (data) {

case '1':

Red\_SetHigh();

break;

case '2':

Yellow\_SetHigh();

break;

case '3':

Green\_SetHigh();

break;

default:

Red\_SetLow();

Yellow\_SetLow();

Green\_SetLow();

break;

}

}

}

/\*\*

End of File

\*/