```
/* ************************************************************************** */
/** Descriptive File Name

  @Company
    Company Name

  @File Name
    filename.c

  @Summary
    Brief description of the file.

  @Description
    Describe the purpose of this file.
 */
/* ************************************************************************** */

/* ************************************************************************** */
/* ************************************************************************** */
/* Section: Included Files                                                    */
/* ************************************************************************** */
/* ************************************************************************** */

/* This section lists the other files that are included in this file.
 */

/* TODO:  Include other files here if needed. */
#include <stddef.h>                     // Defines NULL
#include <stdbool.h>                    // Defines true
#include <stdlib.h>                     // Defines EXIT_FAILURE
#include "app.h"
#include "Gest_LED.h"

/* ************************************************************************** */
/* ************************************************************************** */
/* Section: File Scope or Global Data                                         */
/* ************************************************************************** */
/* ************************************************************************** */

/*  A brief description of a section can be given directly below the section
    banner.
 */


//fonction :Gest_LED
//EntrÃ©e: uint8_t Num_LEDs  uint8_t Color bool LED_On_Off
//sortie : -
//description :fonction permetant de contrÃ´ler les diffÃ©rentes LEDs par
//apport au numÃ©ro de la LED et la couleurs

void Gest_LED( uint8_t Num_LEDs,uint8_t Color, bool LED_On_Off)
{
```

```
    //choix de la LED
    switch (Num_LEDs)
    {
        case LED0:
        {
    //choix de la couleur
            switch (Color)
            {
                case RED:
                {
                    if (LED_On_Off == true)
                    {
                        LED0_ROn();
                    }
                    else
                    {
                        LED0_ROff();
                    }
                    break;
                }
                case YELLOW:
                {
                    if (LED_On_Off == true)
                    {
                        LED0_YOn();
                    }
                    else
                    {
                        LED0_YOff();
                    }
                    break;
                }
                case GREEN:
                {
                    if (LED_On_Off == true)
                    {
                        LED0_GOn();
                    }
                    else
                    {
                        LED0_GOff();
                    }
                    break;
                }
                default:
                {

                break;
                }

            }
```

```
            break;
        }
        case LED1:
        {
            switch (Color)
            {
//choix de la couleur
                case RED:
                {
                    if (LED_On_Off == true)
                    {
                        LED1_ROn();
                    }
                    else
                    {
                        LED1_ROff();
                    }
                    break;
                }
                case YELLOW:
                {
                    if (LED_On_Off == true)
                    {
                        LED1_YOn();
                    }
                    else
                    {
                        LED1_YOff();
                    }
                    break;
                }
                case GREEN:
                {
                    if (LED_On_Off == true)
                    {
                        LED1_GOn();
                    }
                    else
                    {
                        LED1_GOff();
                    }
                    break;
                }
                default:
                {

                break;
                }

            }
            break;
        }
```

```
        case LED2:
        {
    //choix de la couleur
            switch (Color)
            {
                case RED:
                {
                    if (LED_On_Off == true)
                    {
                        LED2_ROn();
                    }
                    else
                    {
                        LED2_ROff();
                    }
                    break;
                }
                case YELLOW:
                {
                    if (LED_On_Off == true)
                    {
                        LED2_YOn();
                    }
                    else
                    {
                        LED2_YOff();
                    }
                    break;
                }
                case GREEN:
                {
                    if (LED_On_Off == true)
                    {
                        LED2_GOn();
                    }
                    else
                    {
                        LED2_GOff();
                    }
                    break;
                }
                default:
                {

                break;
                }

            }
            break;
        }
        case LED3:
        {
```

```
            //choix de la couleur
            switch (Color)
            {
                case RED:
                {
                    if (LED_On_Off == true)
                    {
                        LED3_ROn();
                    }
                    else
                    {
                        LED3_ROff();
                    }
                    break;
                }
                case YELLOW:
                {
                    if (LED_On_Off == true)
                    {
                        LED3_YOn();
                    }
                    else
                    {
                        LED3_YOff();
                    }
                    break;
                }
                case GREEN:
                {
                    if (LED_On_Off == true)
                    {
                        LED3_GOn();
                    }
                    else
                    {
                        LED3_GOff();
                    }
                    break;
                }
                default:
                {

                break;
                }

            }
            break;
        }
        case LED4:
        {
            //choix de la couleur
            switch (Color)
```

```
        {
            case RED:
            {
                if (LED_On_Off == true)
                {
                    LED4_ROn();
                }
                else
                {
                    LED4_ROff();
                }
                break;
            }
            case YELLOW:
            {
                if (LED_On_Off == true)
                {
                    LED4_YOn();
                }
                else
                {
                    LED4_YOff();
                }
                break;
            }
            case GREEN:
            {
                if (LED_On_Off == true)
                {
                    LED4_GOn();
                }
                else
                {
                    LED4_GOff();
                }
                break;
            }
            default:
            {

            break;
            }

        }
        break;
    }
    case LED5:
    {
        //choix de la couleur
        switch (Color)
        {
            case RED:
```

```
            {
                if (LED_On_Off == true)
                {
                    LED5_ROn();
                }
                else
                {
                    LED5_ROff();
                }
                break;
            }
            case YELLOW:
            {
                if (LED_On_Off == true)
                {
                    LED5_YOn();
                }
                else
                {
                    LED5_YOff();
                }
                break;
            }
            case GREEN:
            {
                if (LED_On_Off == true)
                {
                    LED5_GOn();
                }
                else
                {
                    LED5_GOff();
                }
                break;
            }
            default:
            {

            break;
            }

        }
        break;
    }
    case LED6:
    {
        //choix de la couleur
        switch (Color)
        {
            case RED:
            {
                if (LED_On_Off == true)
```

```
                {
                    LED6_ROn();
                }
                else
                {
                    LED6_ROff();
                }
                break;
            }
            case YELLOW:
            {
                if (LED_On_Off == true)
                {
                    LED6_YOn();
                }
                else
                {
                    LED6_YOff();
                }
                break;
            }
            case GREEN:
            {
                if (LED_On_Off == true)
                {
                    LED6_GOn();
                }
                else
                {
                    LED6_GOff();
                }
                break;
            }
            default:
            {

            break;
            }

        }
        break;
    }
    case LED7:
    {
        //choix de la couleur
        switch (Color)
        {
            case RED:
            {
                if (LED_On_Off == true)
                {
                    LED7_ROn();
```

```
                }
                else
                {
                    LED7_ROff();
                }
                break;
            }
            case YELLOW:
            {
                if (LED_On_Off == true)
                {
                    LED7_YOn();
                }
                else
                {
                    LED7_YOff();
                }
                break;
            }
            case GREEN:
            {
                if (LED_On_Off == true)
                {
                    LED7_GOn();
                }
                else
                {
                    LED7_GOff();
                }
                break;
            }
            default:
            {

            break;
            }

        }
        break;
    }
    case LED8:
    {
        //choix de la couleur
        switch (Color)
        {
            case RED:
            {
                if (LED_On_Off == true)
                {
                    LED8_ROn();
                }
                else
```

```
                {
                    LED8_ROff();
                }
                break;
            }
            case YELLOW:
            {
                if (LED_On_Off == true)
                {
                    LED8_YOn();
                }
                else
                {
                    LED8_YOff();
                }
                break;
            }
            case GREEN:
            {
                if (LED_On_Off == true)
                {
                    LED8_GOn();
                }
                else
                {
                    LED8_GOff();
                }
                break;
            }
            default:
            {

            break;
            }

        }
        break;
    }
    case LED9:
    {
        //choix de la couleur
        switch (Color)
        {
            case RED:
            {
                if (LED_On_Off == true)
                {
                    LED9_ROn();
                }
                else
                {
                    LED9_ROff();
```

```
                    }
                    break;
                }
                case YELLOW:
                {
                    if (LED_On_Off == true)
                    {
                        LED9_YOn();
                    }
                    else
                    {
                        LED9_YOff();
                    }
                    break;
                }
                case GREEN:
                {
                    if (LED_On_Off == true)
                    {
                        LED9_GOn();
                    }
                    else
                    {
                        LED9_GOff();
                    }
                    break;
                }
                default:
                {

                break;
                }

            }
            break;
        }
        default:
        {
            break;
        }

    }

}

//fonction : All_LED_Off
//EntrÃ©e: -
//sortie : -
//description :Permet d'Ã©teindre toutes les LED de toutes les couleurs

void All_LED_Off (void)
{
```

```
    LED0_ROff();
    LED0_GOff();
    LED0_YOff();

    LED1_ROff();
    LED1_GOff();
    LED1_YOff();

    LED2_ROff();
    LED2_GOff();
    LED2_YOff();

    LED3_ROff();
    LED3_GOff();
    LED3_YOff();

    LED4_ROff();
    LED4_GOff();
    LED4_YOff();

    LED5_ROff();
    LED5_GOff();
    LED5_YOff();

    LED6_ROff();
    LED6_GOff();
    LED6_YOff();

    LED7_ROff();
    LED7_GOff();
    LED7_YOff();

    LED8_ROff();
    LED8_GOff();
    LED8_YOff();

    LED9_ROff();
    LED9_GOff();
    LED9_YOff();
}
/* ************************************************************************** */
/* ************************************************************************** */
// Section: Interface Functions                                               */
/* ************************************************************************** */
/* ************************************************************************** */

/*  A brief description of a section can be given directly below the section
    banner.
 */

// *****************************************************************************
```

```
/**
  @Function
    int ExampleInterfaceFunctionName ( int param1, int param2 )

  @Summary
    Brief one-line description of the function.

  @Remarks
    Refer to the example_file.h interface header for function usage details.
 */
int ExampleInterfaceFunction(int param1, int param2) {
    return 0;
}


/* *****************************************************************************
 End of File
 */
```