C:\Users\mingc\Documents\ENEL 387\Group Proj\IR_Sensor.c

```
/* file: IR Sensor.c */
     /* Author - Onisokien Ayonoadu
                Priscilla Chua, Mar 10 2020 */
 4
5
    #include "stm32f10x.h"
    #include "clocks.h"
6
7
    #include "PWM.h"
    #include "GPIO.h"
8
9
    #include "IR Sensor.h"
10
    //void IR configuration(void)
11
12
    // //RCC->APB2ENR |= RCC_APB2ENR_IOPAEN | RCC_APB2ENR_IOPBEN | RCC_APB2ENR_IOPCEN; //port A, B, C
13
    // //GPIOB->CRH = 0 \times 8844444444;
14
15
    //
16
    //
17
    //// GPIOB->CRH |= GPIO CRH MODE14; //PB14
18
    //// GPIOB->CRH &= ~GPIO CRH CNF14;
19
    ////
    //// GPIOB->CRH |= GPIO_CRH_MODE15; //PB15
20
21
    //// GPIOB->CRH &= ~GPIO CRH CNF15;
22
    ////
    //}
23
24
25
    uint16_t IR_Right_Sensor(void)
26
27
      //Left Sensor
28
        if((GPIOB->IDR & (GPIO_IDR_IDR14)) == 0)
29
          return 0xFFF;
30
        else
31
          return 0x00;
32
   }
33
34
    uint16 t IR Left Sensor()
35
36
       //Right Sensor
37
         if((GPIOB->IDR & GPIO IDR IDR15) == 0)
38
          return 0xFFF;
39
         else
40
          return 0x00;
41
42
43
    uint16_t Flame_Sensor()
44
         if((GPIOB->IDR & GPIO_IDR_IDR13) == 0)
45
          return 0xFFF;
47
48
          return 0x00;
```

49