





```

1  /*******
2  * LOG:
3  * VERSION      AUTHOR      DATE      DESCRIPTION
4  * 1.0.0        Kareem Hassan  XX XXXX, 20XX  - Initial Creation
5  *****/
6  /*******
7  * ! Title      : DIO Driver
8  * ! File Name   : DIO_main.c
9  * ! Description : This file has the main function of the APP
10 * ! Compiler    : GNU AVR cross Compiler
11 * ! Target      : Atmega32 Micro-Controller
12 * ! Layer       : MCAL
13 *****/
14
15 /******* Libraries Inclusion *****/
16 #include"../LIB/STD_TYPES.h"
17 #include"../LIB/BIT_MATH.h"
18 #include"util/delay.h"
19 /******* Self Files Inclusions *****/
20 #include"../MCAL/DIO/DIO_interface.h"
21
22 void main()
23 {
24     /*Setting PortA Directions*/
25     MDIO_voidSetPortSpecificDirection(PORTA, 0xFF, 0xF0);
26     /*Setting PortB Directions*/
27     MDIO_voidSetPortSpecificDirection(PORTB, 0xFF, 0x6A);
28     /*Setting PortC Directions*/
29     MDIO_voidSetPortSpecificDirection(PORTC, 0xFF, 0x55);
30     /*Setting PortD Directions*/
31     MDIO_voidSetPortSpecificDirection(PORTD, 0xFF, 0x00);
32
33     /*Setting PortA Values*/
34     MDIO_voidSetPortSpecificValue(PORTA, 0xFF, 0xFF);
35     /*Setting PortB Values*/
36     MDIO_voidSetPortSpecificValue(PORTA, 0xFF, 0x60);
37     /*Setting PortC Values*/
38     MDIO_voidSetPortSpecificValue(PORTA, 0xFF, 0x55);
39     /*Setting PortD Values*/
40     MDIO_voidSetPortSpecificValue(PORTA, 0xFF, 0xFF);
41
42     while(1)
43     {
44     }
45 }
46

```

C source file

length : 2318 lines : 46

