

Pseudo code Junwei Tan

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compiler directives

#include <c8051_SDCC.h>

#include <stdio.h>

declare global variables

sbit PB1, PB2, SS, LED0, BILED0, BILED1, BUZZER

function prototypes

void Port_Init(void)

void Set_Outputs(void)

main function

declare local variables

(NONE)

initialization functions

Sys_Init();

putchar(' ');

Port_Init();

Begin infinite loop

execute Set_Outputs(void) function to read sbit inputs and set sbit
outputs

End infinite loop

End main function

Functions

void Port_Init(void)

Set SFRs P2, P3, P2MDOUT & P3MDOUT so P2.0, P3.0 & P3.1 are inputs,
P3.3, P3.4, P3.6 & P3.7 are outputs

End Port_Init

void Set_Outputs(void)

If SS is off then

BILED is green, other component is off

Print "Slide Switch is OFF"

Else (this means SS is on)

Print "Slide Switch is ON"

If (PB1 is pushed and PB2 is pushed) then

BILED is red

Print "Pushbutton 1 and 2 ACTIVATED"

Else if (PB1 is pushed and PB2 is released) then

Buzzer is on

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        Print "Pushbutton 1 ACTIVATED"
    Else if (PB1 is released and PB2 is pushed) then
        LED is on
        Print "Pushbutton 2 ACTIVATED"
    Else
        BILED is off
End Set_Outputs
```