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Forum: 8-bit PIC
Topic: 24C02問題
Subject: 24C02問題
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目前使用PIC16F877A 寫一個每按壓一次SW,藉由24C02寫入並讀出數值(由7-SEG顯示),但目前按壓無任何動作,
單純寫入24C02數值並由7-SEG讀出數值都是oK的,但是寫入後要再讀出,並由7-SEG顯示卻無法動作,繁複看了好幾次一直找不到問題點,是否有前輩可以幫忙指導一下

```
#include <pic.h>            //覃蚚PIC16F87XA等⑵儂腔芛惤璃
//#include "877_I2C.H"
//#include "24C02.H"

void delay(int num);
void I2C_Init(void);
void I2C_Start(void);
void I2C_RptStart(void);
void I2C_Stop(void);
int I2C_Read(unsigned char ack);
unsigned char I2C_Write(unsigned char I2CWriteData);
void write_ext_eeprom(unsigned char address,unsigned char data);
unsigned char read_ext_eeprom(unsigned char address);


__CONFIG(HS & LVPDIS & WDTDIS);



const  unsigned char LED[]=
{
 0xc0,0xf9,0xa4,0xb0,0x99,0x92,0x82,0xf8,0x80,0x90  //0~9
};

//--------------------------------------
 void main()            //玭滲杅,等⑵儂羲儂綴妖岆植涴跺滲杅羲宎堍俴
{
 unsigned char Reset_Count=0;
 unsigned char EEP_Address=0x04;

 TRISD=0X00;        //7-SEG Output
 PORTD=0Xff;       //7-SEG low
 TRISB1=1;         //RB1 input
 TRISE=0x00;       //control 7-SEG
 PORTE=0b11111101; //RE1 low
```

```
 I2C_Init();
 //Reset_Count=read_ext_eeprom(EEP_Address);
 //Reset_Count++;
 PORTD=LED[Reset_Count];
// write_ext_eeprom(EEP_Address,Reset_Count);
 while(1)
 {


  if(RB1==0)
  {
   delay(20);
   if(RB1==0)
   {
    Reset_Count++;
    if(Reset_Count>=10)
    {
     Reset_Count=0;
    }
    write_ext_eeprom(EEP_Address,Reset_Count);

    Reset_Count=read_ext_eeprom(EEP_Address);
    PORTD=LED[Reset_Count];


   }
  }

 }
}

//----------------I2C---------------------------------
void I2C_Init()
{
  TRISC3=1;       //SCL set input
  TRISC4=1;       //SCL set input

  SSPCON=0x38;  //設定I2C模式
  SSPCON2=0x00;
  SSPADD=0x09;     //主頻4M ,傳輸率:100K

  CKE=0;
  SMP=1;
  SSPIF=0;
  BCLIF=0;
}

void I2C_Start()
{
```

```
  SEN=1;
  while(SEN);
}

void I2C_RptStart()
{
 RSEN=1;
 while(RSEN);
}

void I2C_Stop()
{
 PEN=1;
 while(PEN);
}

int I2C_Read(unsigned char ack)
{
 unsigned char I2CReadData;

 RCEN=1;
 while(RCEN);
 I2CReadData=SSPBUF;
 if(ack)
 {
   ACKDT=0;
 }
 else
 {
   ACKDT=1;
 }

 ACKEN=1;
 while(ACKEN);
 return(I2CReadData);
}

unsigned char I2C_Write(unsigned char I2CWriteData)
{
 SSPBUF=I2CWriteData;
 while(RW);
 return(!ACKSTAT);
}


//----------------24c02--------------------------------
void write_ext_eeprom(unsigned char address, unsigned char data)
{
  I2C_Start();
```

```
  I2C_Write(0b10100000); //A2~A0:000, R/W=0
  I2C_Write(address);
  I2C_Write(data);
  I2C_Stop();
  delay(150);        //數值沒寫無法正常跑
}

unsigned char read_ext_eeprom(unsigned char address)
{
  unsigned char data;

  I2C_Start();
  I2C_Write(0b10100000); //A2~A0:000, R/W=0
  I2C_Write(address);
  I2C_RptStart();
  I2C_Write(0b10100001); //A2~A0:000, R/W=1
  data=I2C_Read(0);
  I2C_Stop();
  return(data);
}

//----------------delay---------------------------------
void delay(int num)
{
  int aa,bb;
  aa=num;
  while(aa)
    {
      bb=num;
      while(bb)
        {bb--;}
      aa--;
    }
}
```