```c
#include <xc.h>

#define XTAL_FREQ 20000000

#include "Config.h"

#include "I2C.h"

#include "LCD.h"

#include "RTC.h"

#define Device_add 0xD0

#define Reg_add   0x00

unsigned char Time[6]="TIME:";

unsigned char DATE[6]="DATE:";

unsigned char Mode='P';

unsigned char Hour=8;

unsigned char Min=55;

unsigned char Sec=33;

unsigned char Day=3;

unsigned char Month=12;

unsigned char Year=30;

unsigned char Date=22;



void main(void) {

    //I2C configuration and Writing Sequence

    I2C_Master_Init();

    I2C_Start();

    Set_Time_Calender(Sec,Min,Mode,Hour,Day,Month,Year,Date);

    I2C_Stop();

    //Writing Sequence  and Lcd Configuration

    Lcd_Configuration();

    Lcd_Cmd(0x80);

    Lcd_Print(Time);

    Lcd_Cmd(0xC0);

    Lcd_Print(DATE);

    //Read Sequence


    while(1){
```

```
        I2C_Start();

        I2C_Device_Select_R((unsigned char)0xD0 ,(unsigned char) 0x00);

        Read_Time();

        Read_Date();

        I2C_Stop();


        Lcd_Cmd(0x85);

        Lcd_Print(Current_Time);

        Lcd_Cmd(0xC5);

        Lcd_Print(Current_Date);


        }


}
```

```
        I2C_Start();

        I2C_Device_Select_R((unsigned char)0xD0 ,(unsigned char) 0x00);
```