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## New to PIC and I2C Help Please

Posted by Ben Rowe - 2007/02/01 16:04

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Hi there having a problem with this code just trying to get my head around the pics and the I2C protocol. Im currently using a PIC DEM 2+ board from Microchip with MPLAB and connecting to the onboard I2c temp sensor using the c18 compiler. i get a responce but its always a '!' ?? any ideas

thanks

ben

ps heres the code:

```
#include <p18f452.h>
#include <usart.h>
#include <i2c.h>

#pragma config WDT = OFF

void main (void)
{
    unsigned char x;
    OpenUSART( USART_TX_INT_OFF &
    USART_RX_INT_OFF &
    USART_ASYNCH_MODE &
    USART_EIGHT_BIT &
    USART_CONT_RX &
    USART_BRGH_HIGH,
    25 );

    OpenI2C(MASTER, SLEW_ON);
    StartI2C();
    x = getsI2C('1000000b', 10);
    putsUSART(x);
    StopI2C();
}
```

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## Re:New to PIC and I2C Help Please

Posted by dariog - 2007/02/20 21:30

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Hmm, well, apart from checking Baud Rate and such (could you try sending some plain Chars just to check?), I can see that you're using

"putsUSART" which expects a CONST ROM CHAR \*...

You're OTOH passing it a simple char: this is wrong.

You can either use "putcUSART(x);" to send the "hex" number corresponding to what is read from I2C, or convert that number to a string (maybe using printf()) and then use "putsUSART" (note "r" is missing... in fact you'll be using a CHAR \* i.e. a string.)

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