

2016

Interfacing PC with MPLAB Xpress Evaluation Board



SIVO A Tanat Taabnatrania

Contents

Introduction	2
Component Requirement	2
Procedure	
Output:	

Introduction

MPLAB Xpress IDE cost free development platform. It's cloud Based IDE available from microchip supporting PIC-based microcontrollers. The platform is comprised of code editor, build automation tools, debugger, code configurator. MPLAB Xpress IDE is an end-to-end solution enabling engineers to develop their applications from initial evaluation to final production.

Component Requirement

> Hardware:

- MPLAB Xpress evaluation tool
- Personal computer

> Software:

MPLAB Xpress IDE

Procedure

Step 1: Open your Browser and go to following link

https://mplabxpress.microchip.com/mplabcloud/ide

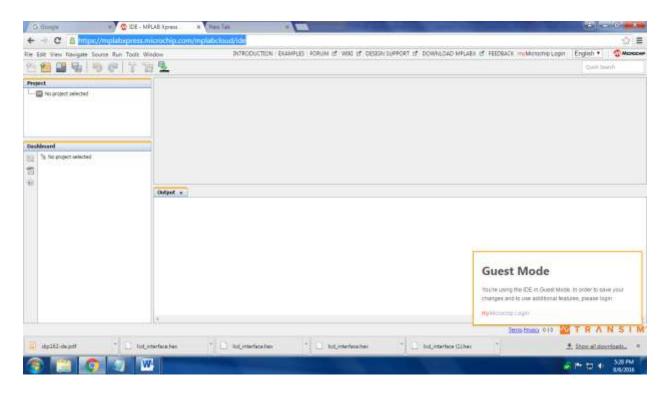


Figure 1 MPLAB Xpress IDE main window

Step 2: start creating our new project. Go to **File** >> **New Project.** Select **microchip embedded** as well as **standalone project** then click **next**

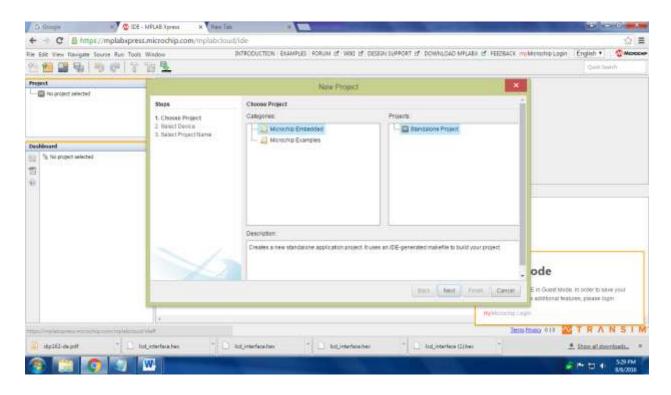


Figure 2 Open new project

Step 3: Select device pic16f18855, and click next.

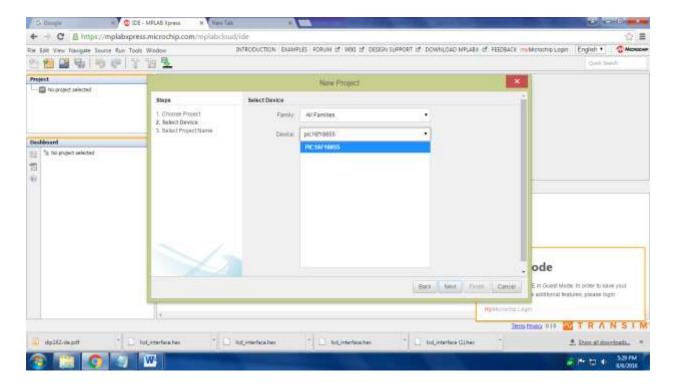


Figure 3 select Device

Step 4: then give project name and click finish.

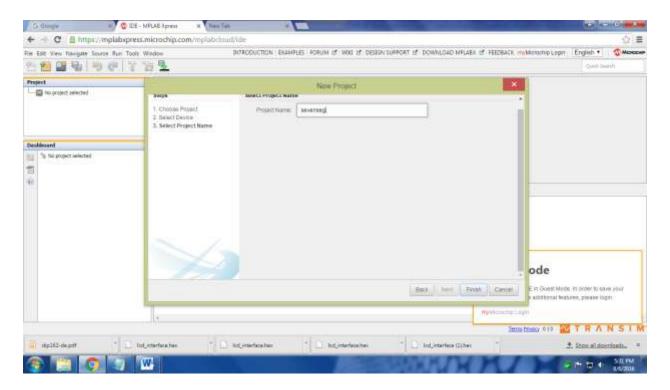


Figure 4 give project name

Step 5: Now choose mplab xpress code configurator if its not present in your Device please Download and install from following link. http://www.microchip.com/mplab/mplab-code- configurator

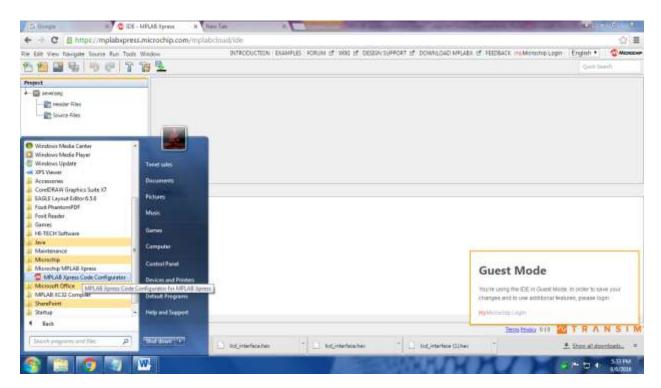


Figure 5 Select mplab xpress code configurator

Step 6: Now we can see our mplab xpress configuration window and select system module in mplab xpress configuration window.

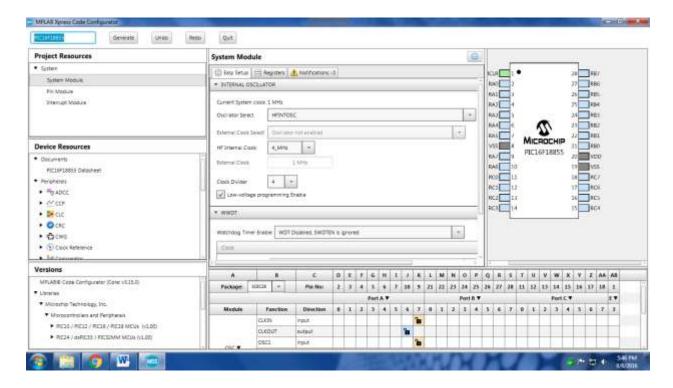


Figure 6 select pin

Step 7: select pin module in mplab xpress configuration window and make deselect Analog in pin module window.

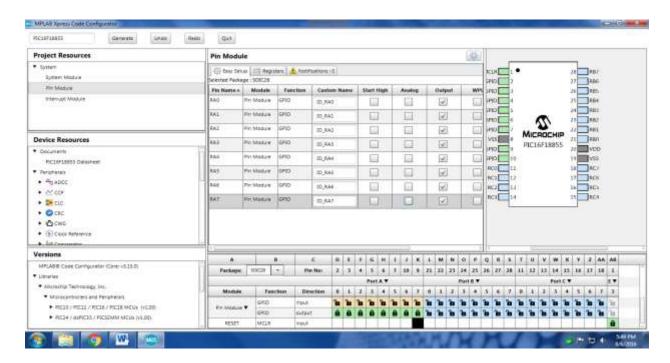


Figure 7 pin configuration set

Step 8:Now click Generate option.

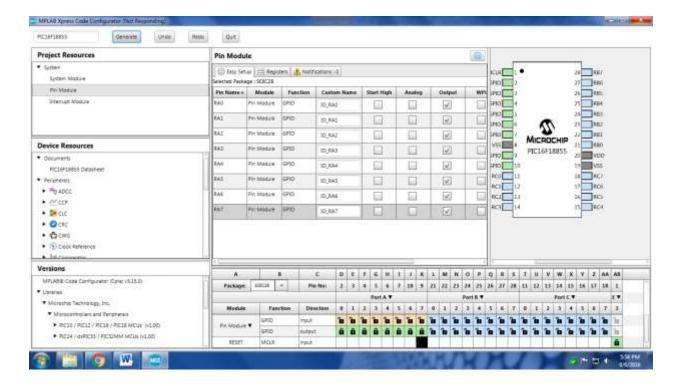


Figure 8 click Generate

Note: If you didn't done above things please add all library files. You can also get from our website.

SOURCE CODE:

```
#include "mcc_generated_files/mcc.h"
void main(void)
{
    // initialize the device
    SYSTEM Initialize();
    while (1)
    {
        printf("Hello!\n\r");
    }
}
```

Step 9: Go to your MPLAP xpress IDE Erase all existing code and copy above code past there and add header file from given file then make clean and build for Export . if you done this go to download you can see hex file for your project.

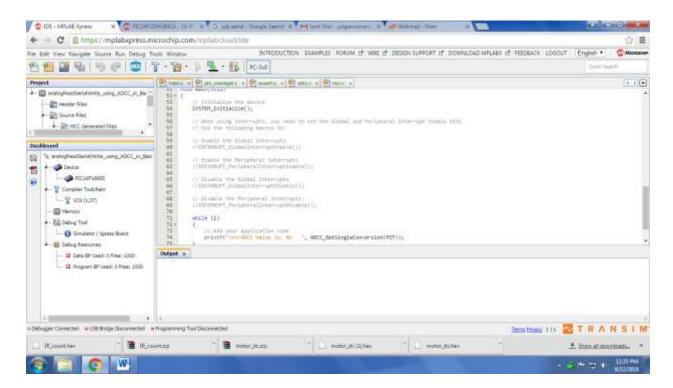


Figure 10 Build the project

Step 10: Now, if all goes well connect the Micro B cable to pic16f18855 (mplab xpress demonstration board) and connect it to your computer. If you done you can see your devise. And file device. And hardware copy that Hex to your make connection.

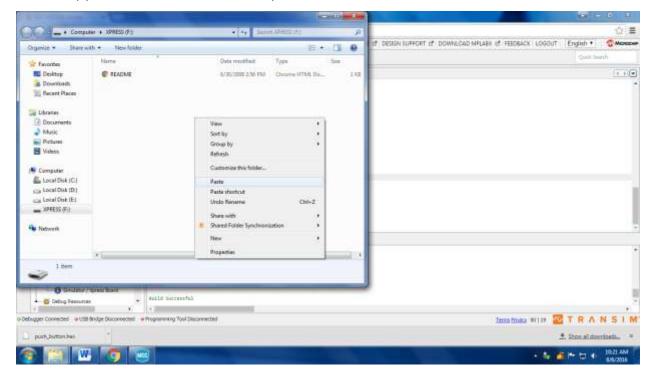
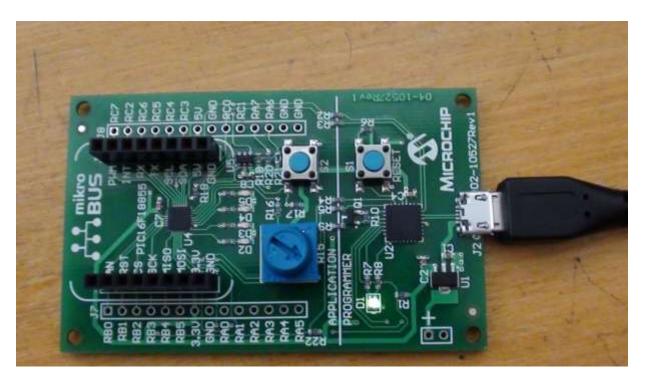


Figure 11 Run the project

Output:



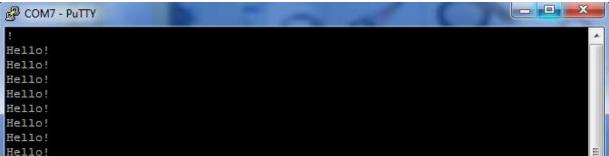
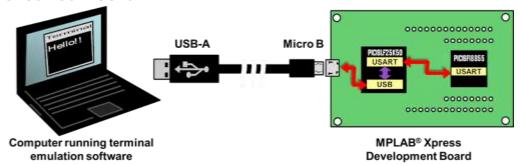


Figure 12 output

Circuit connection



For product link:

http://www.tenettech.com/product/8828/mplab-xpress-development-board

For more information please visit: www.tenettech.com

For technical query please send an e-mail: info@tenettech.com