Getting Started with Microchip Technical Training Live Online Classes

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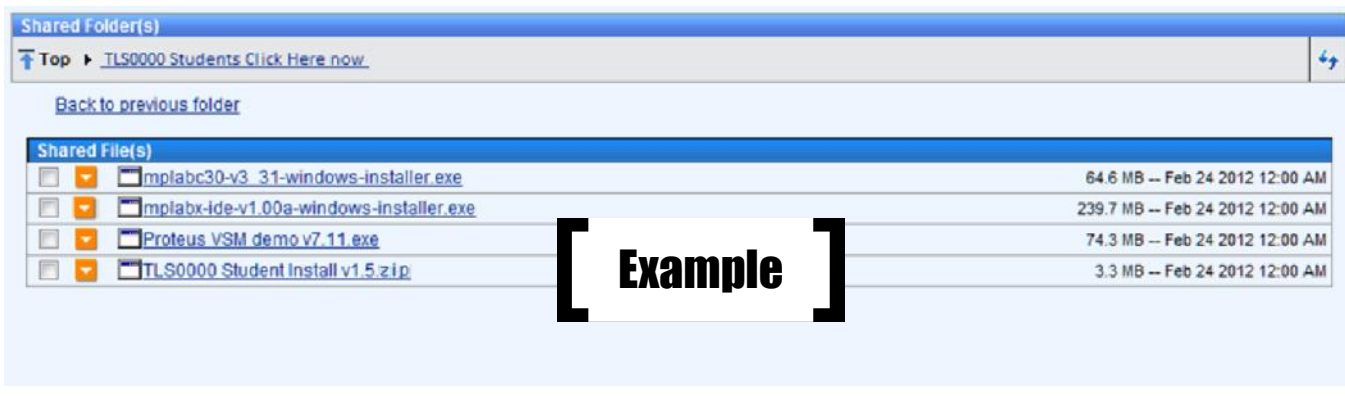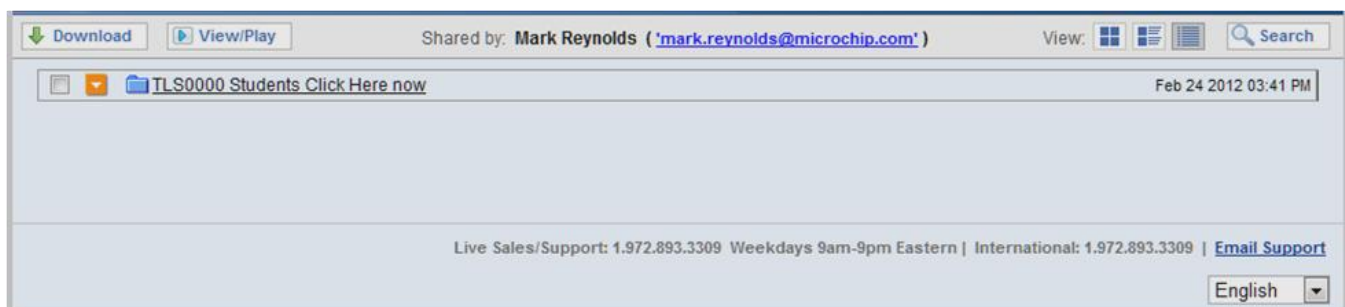*Mark Reynolds*
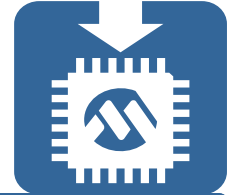*Microchip Technology Inc.*

V5.0 July 2013

What's Included

❓ Download folder

The download folder includes the development tools and the minimal versions of those tools that are compatible with the class. If you have already installed a newer version of the tool, you may use that.

Start by downloading all the files, then read the '_READ ME FIRST.PDF' instructions

⬇ Download	▶ View/Play	Shared by: **Mark Reynolds** ('mark.reynolds@microchip.com')	View: ▦ ▦ ▤	🔍 Search
☐ 🔽 📁 TLS0000 Students Click Here now				Feb 24 2012 03:41 PM

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English ▼

Shared Folder(s)

⬆ Top ▶ TLS0000 Students Click Here now ↔

Back to previous folder

Shared File(s)

☐ 🔽	📄 mplabc30-v3_31-windows-installer.exe	64.6 MB -- Feb 24 2012 12:00 AM
☐ 🔽	📄 mplabx-ide-v1.00a-windows-installer.exe	239.7 MB -- Feb 24 2012 12:00 AM
☐ 🔽	📄 Proteus VSM demo v7.11.exe	74.3 MB -- Feb 24 2012 12:00 AM
☐ 🔽	📄 TLS0000 Student Install v1.5.zip	3.3 MB -- Feb 24 2012 12:00 AM

[Example]

Step by Step Checklist

❓ Checklist

☐ Download the files in the download folder

☐ Read the flyer '*_READ ME FIRST.PDF'*

☐ Install MPLAB X IDE

☐ Install the XC Compiler for your class

☐ Install the Proteus VSM simulator

☐ Install the Proteus Plug-In into MPLAB X IDE

☐ Unzip '*<classname> Student Install.zip'*

☐ Run and debug the project '_Getting Started.X' to get the verification message

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Install

☑ Requirements

Development Environment: MPLAB® IDE X
Operating System: PC Windows XP or Vista or Windows 7

❓ Installing

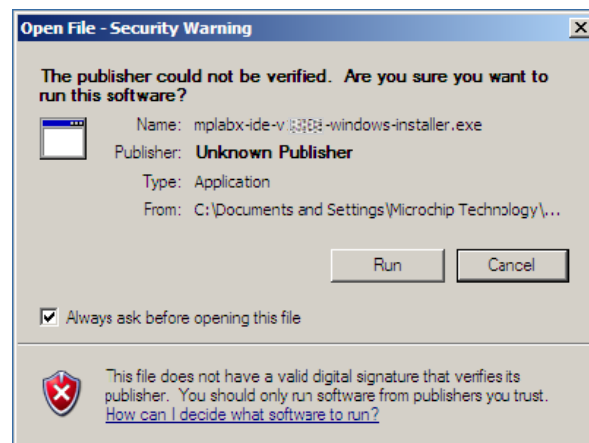**Once you have downloaded the MPLAB X installer, installation is easy.**

① Browse to where the installer was downloaded. You are looking for the file called:

mplabx-ide-vX.XX-windows-installer.exe
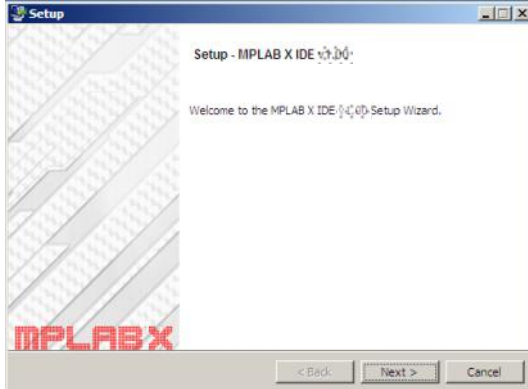
② Double click the installer

> ℹ️ You may be asked to verify that you want to run this program. If so, click yes.

Open File - Security Warning

The publisher could not be verified. Are you sure you want to run this software?

Name: mplabx-ide-v▒▒▒-windows-installer.exe
Publisher: **Unknown Publisher**
Type: Application
From: C:\Documents and Settings\Microchip Technology\...

[Run]   [Cancel]

☑ Always ask before opening this file

This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust. How can I decide what software to run?
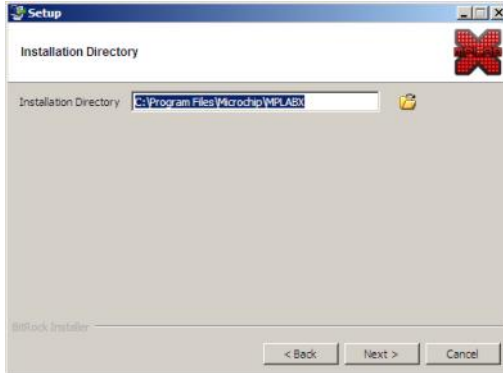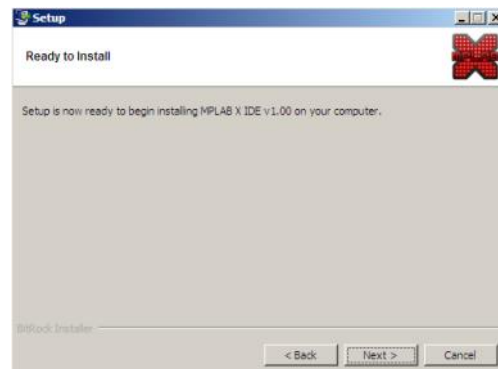
3 Click **Next**

4 You will need to agree to the License and

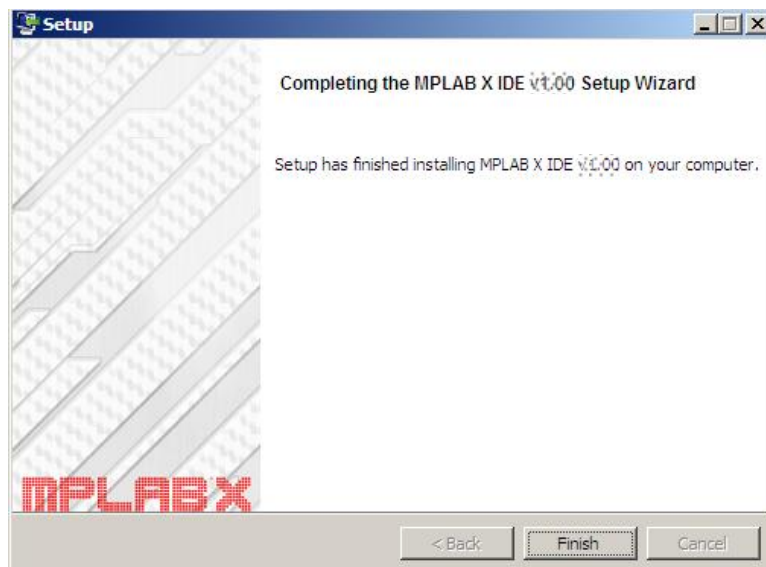Click **Next**

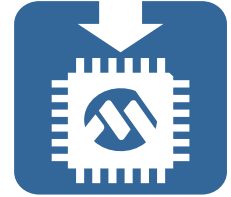
5 Click **Next**

6 Click **Next**

7
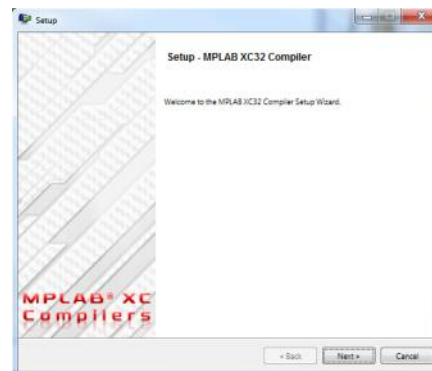
Done !

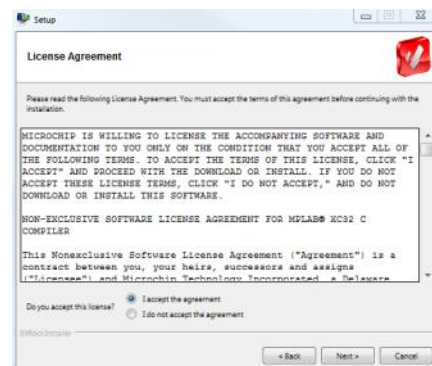Just click **Finish**

Install XC Compiler

◎ Procedure

1 Double-click the installer provided in the download folder for your class. Depending upon which class you are taking, it will be named:

MPLAB-XC8-vX.XX-windows.exe
MPLAB-XC16-vX.XX-windows.exe
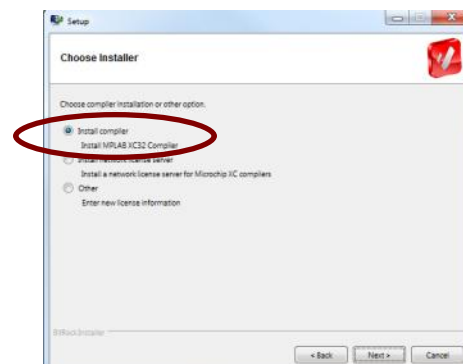**MPLAB-XC32-vX.XX-windows.exe**

Then click **Next**

2 You will need to agree to the License Agreement

Click **Next**

3 Choose the type of license. We recommend you use the **'Install Compiler'** option.
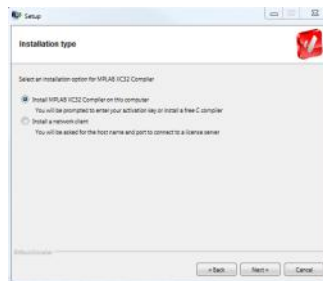
Then click **Next**

4

Accept default se-
lection to install C
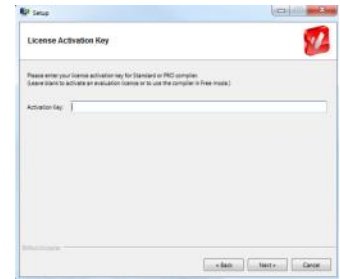compiler directly
onto this computer.

Click **Next**

5

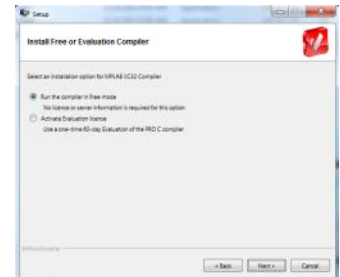Leave activation key
field empty.

Click **Next**

6

Click **Yes**

7

Accept default se-
lection to run com-
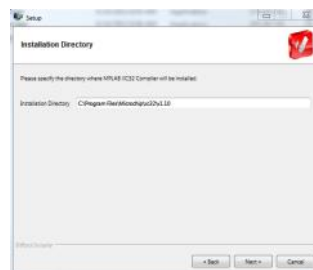piler in free mode

Click **Next**
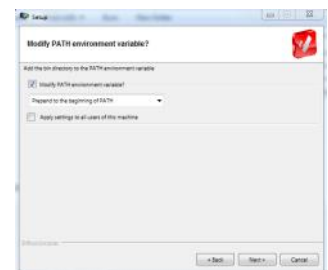
8

Accept default com-
piler path

Click **Next**

9

Accept default se-
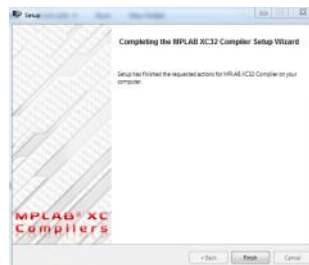lection to modify
PATH variable
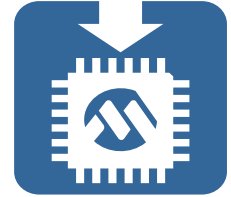
Click **Next**

10

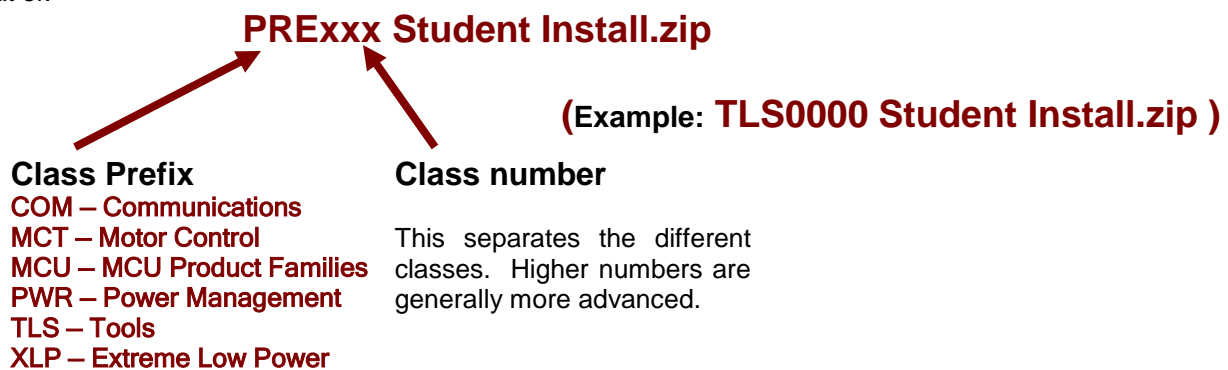Click **Finish**

And you're done!

Install Student Files

◎ Procedure

The *'<classname> Student Install.zip'* file is a Winzip file that includes all the training material for a class. Once you have registered you will have received the link to the tools and class materials. This file will be named in the format of:

PRExxx Student Install.zip

(Example: TLS0000 Student Install.zip)

Class Prefix
COM – Communications
MCT – Motor Control
MCU – MCU Product Families
PWR – Power Management
TLS – Tools
XLP – Extreme Low Power

Class number

This separates the different classes. Higher numbers are generally more advanced.

Use an Unzip tool to open the Student Install.zip file and unpack all the files to the folder:
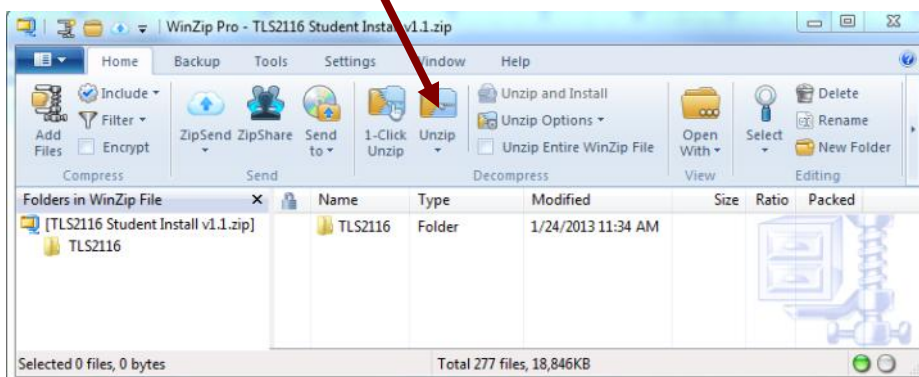
1 **C:\MTT**

Then click **Unzip**

ⓘ If you change the default path during the unzip the lab manuals used in class will have the wrong path names.
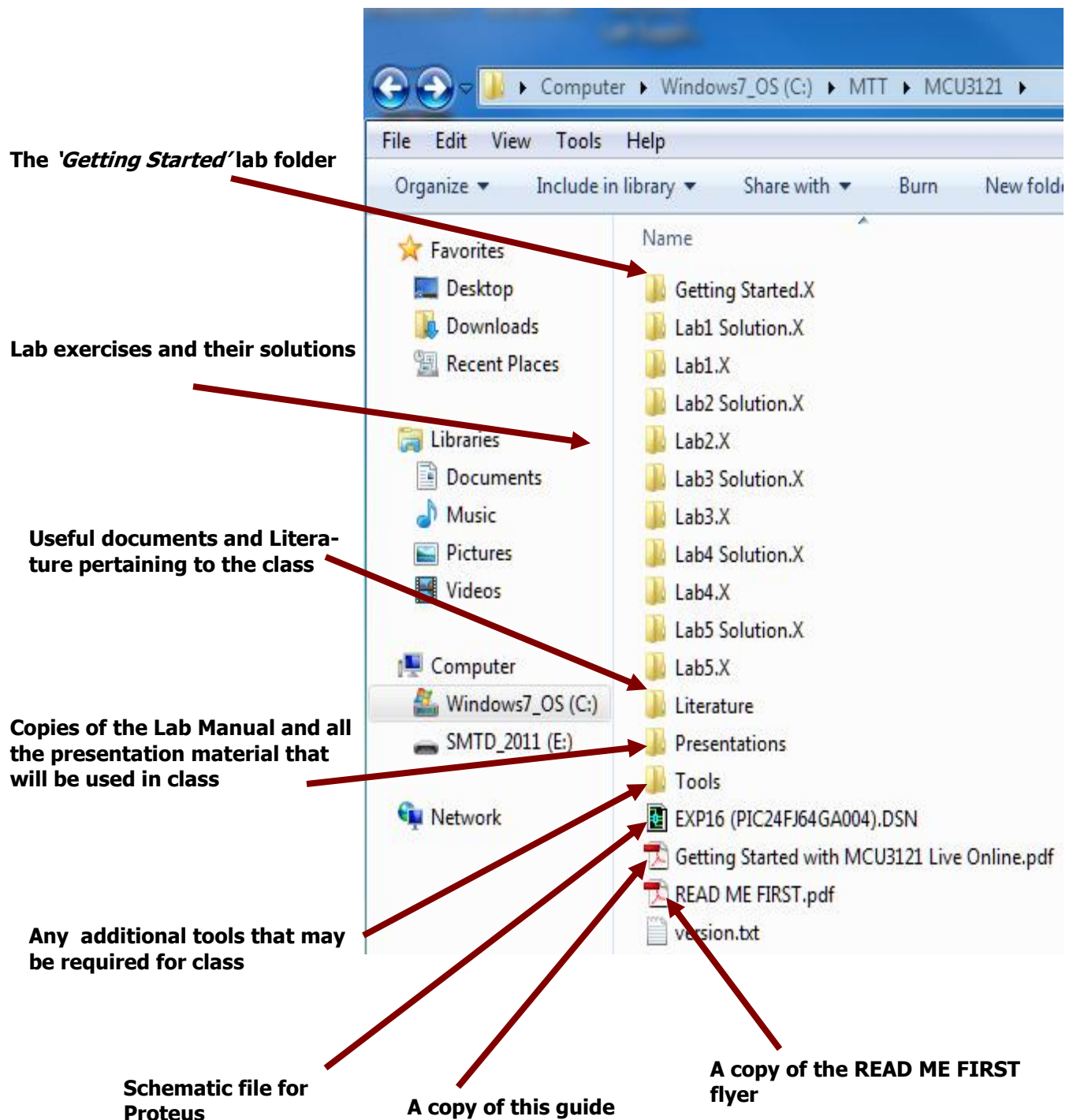

2 Browse to the folder:
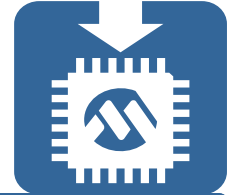**C:\MTT**

Then **Unzip**

Here is an example of a typical unzipped Student Install

The **'*Getting Started'*** lab folder

Lab exercises and their solutions

Useful documents and Litera-ture pertaining to the class

Copies of the Lab Manual and all the presentation material that will be used in class

Any additional tools that may be required for class

> ◄ Computer ► Windows7_OS (C:) ► MTT ► MCU3121 ►
>
> File Edit View Tools Help
>
> Organize ▼   Include in library ▼   Share with ▼   Burn   New fold
>
> ☆ Favorites
> 　🖥 Desktop
> 　⬇ Downloads
> 　🕮 Recent Places
>
> 📚 Libraries
> 　📄 Documents
> 　🎵 Music
> 　🖼 Pictures
> 　🎞 Videos
>
> 🖥 Computer
> 　💾 Windows7_OS (C:)
> 　💿 SMTD_2011 (E:)
>
> 🌐 Network

> Name
> 📁 Getting Started.X
> 📁 Lab1 Solution.X
> 📁 Lab1.X
> 📁 Lab2 Solution.X
> 📁 Lab2.X
> 📁 Lab3 Solution.X
> 📁 Lab3.X
> 📁 Lab4 Solution.X
> 📁 Lab4.X
> 📁 Lab5 Solution.X
> 📁 Lab5.X
> 📁 Literature
> 📁 Presentations
> 📁 Tools
> 📄 EXP16 (PIC24FJ64GA004).DSN
> 📄 Getting Started with MCU3121 Live Online.pdf
> 📄 READ ME FIRST.pdf
> 📄 version.txt

Schematic file for Proteus

A copy of this guide

A copy of the READ ME FIRST flyer
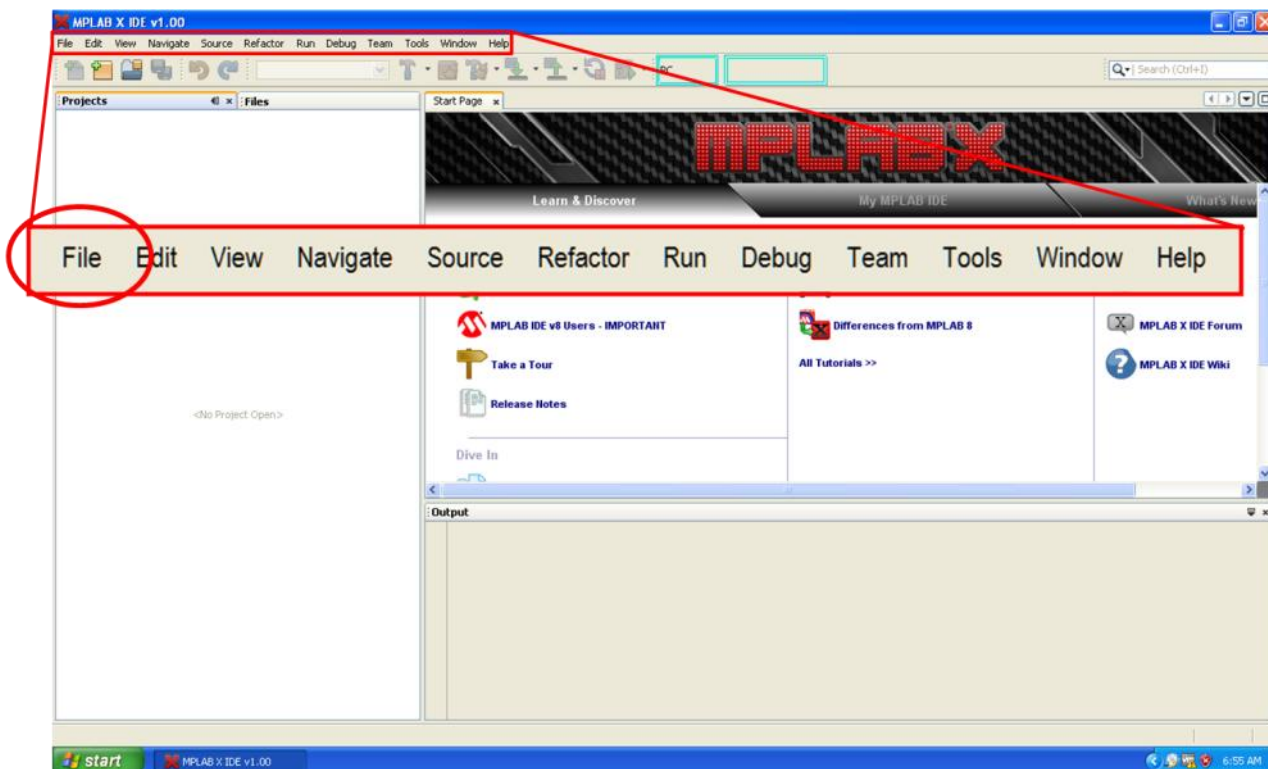
Run the Getting Started Lab

? Getting the verification message

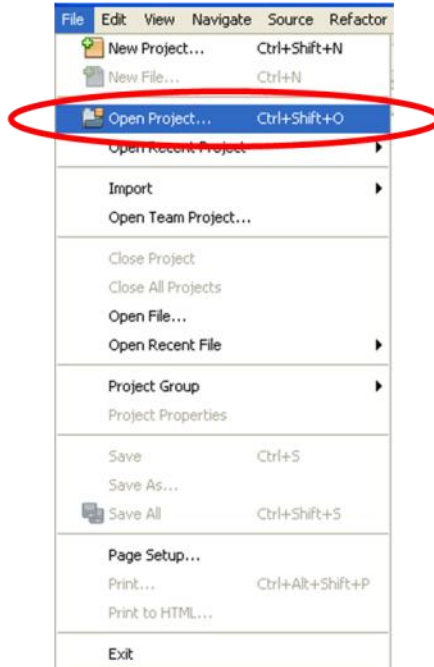**1** Open MPLAB X by double clicking the icon on your desktop.

2 When the desktop opens, go to the File menu in the upper left corner.
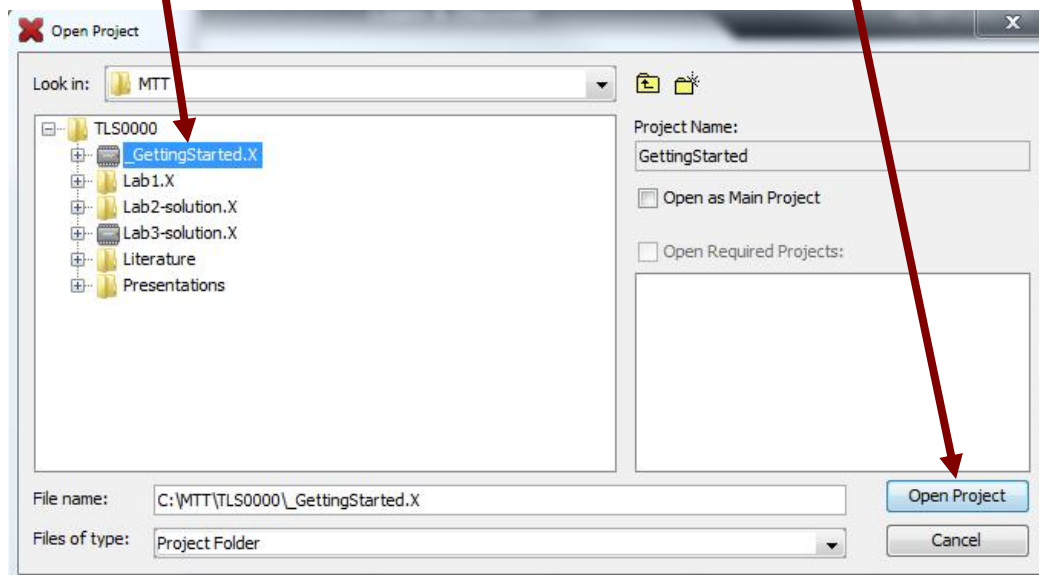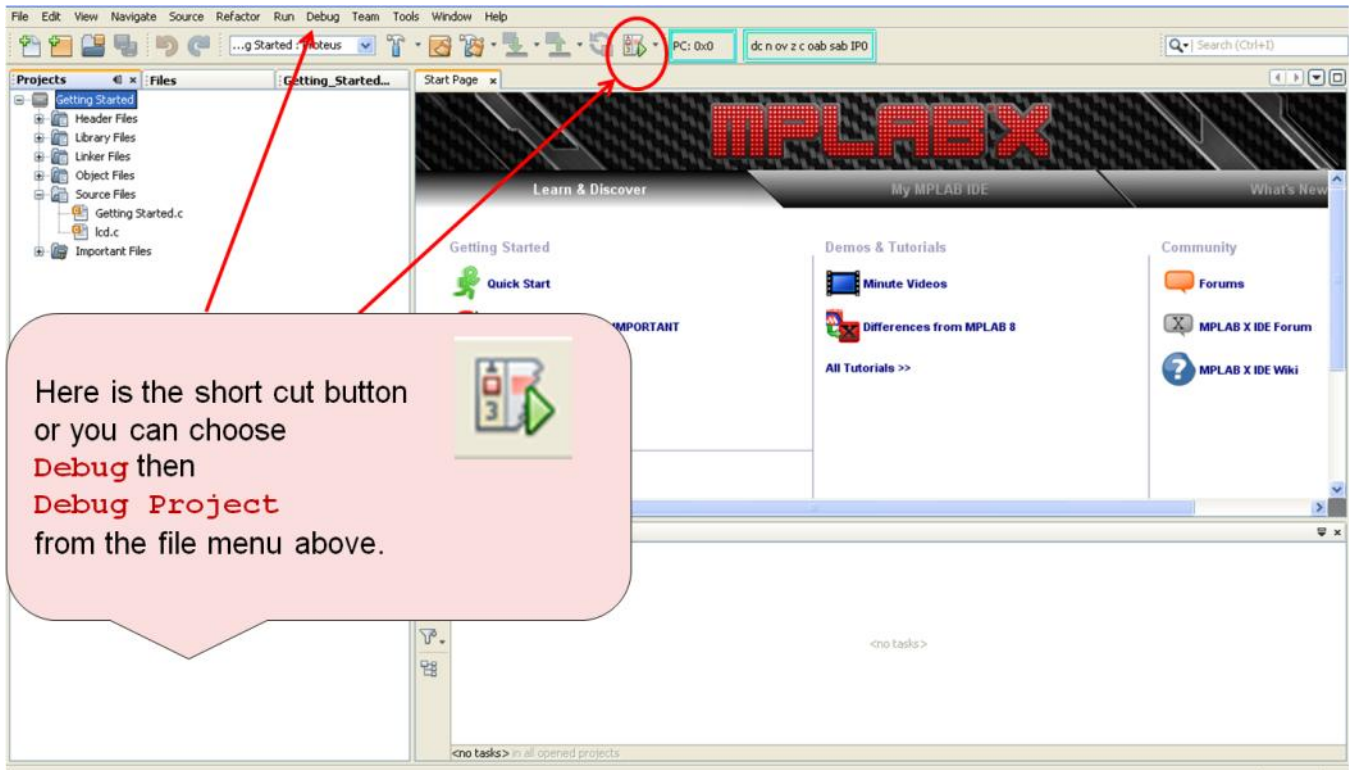
3 Now click
`Open Project`

4 Browse to the folder: `C:\MTT\<classname>\_GettingStarted.X`

Once you have selected the folder, click *'Open Project'*

5 Everything will load for you. All you need to do is click on **Debug -> Debug Project** or click on the shortcut icon shown below.

Here is the short cut button or you can choose **Debug** then **Debug Project** from the file menu above.

6 You may need to click the CONTINUE icon to start the simulation.
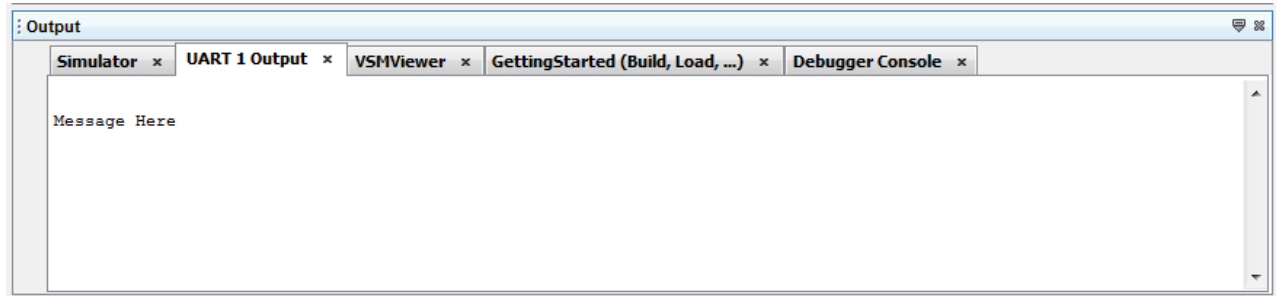
Depending upon the MPLAB X configuration, the simulation may start automatically, or it may need to be manually started by clicking CONTINUE
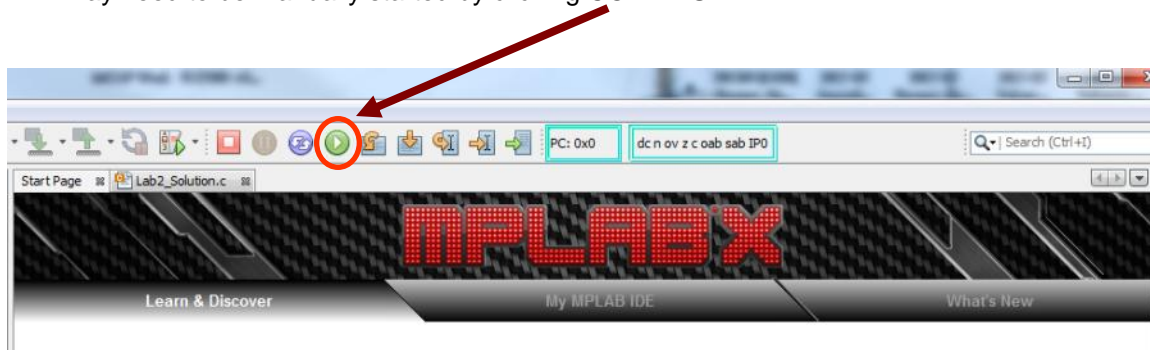
7 **For MPSIMX:**
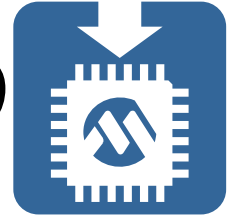The verification message is displayed in the `UART 1 Output` window

Output

| Simulator × | UART 1 Output × | VSMViewer × | GettingStarted (Build, Load, ...) × | Debugger Console × |

Message Here

Congratulations!

You are ready for your MTT Live Online class

Get Help

If you have tried everything and the Getting Started Lab still will not run, we have several options to get help.

1 Join us for a free class titled `TLS0000`.
This class, "`Getting Started with Microchip Live Online`" was created to help get you unstuck. A live instructor will guide you through the entire process of getting ready for your class.
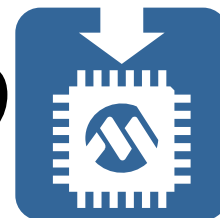
2 Contact us through :
`www.microchip.com/ support`
Here you can ask specific questions if you are stuck on a single topic.

Get Help

www.microchip.com/forums

Sign into the forums on www.microchip.com. You can review previous posts or post your own questions. Microchip Technical Training engineers monitor these forums closely.

③

Each class has its own forum so you can post class specific questions. Just search on the topic TRAINING.

	Topic	In Forum	Replies / Views	Last Update
	Welcome to the Training Forum! by mark.reynolds	XLP1101 - Battery Selection for Low Power Embedded Solutions	0 / 139	Monday, October 08, 2012 7:29 AM mark.reynolds
	Welcome to the Training Forum! by mark.reynolds	XLP0101 - Low Power System Design with nanoWatt XLP	0 / 133	Monday, October 08, 2012 7:29 AM mark.reynolds
	Welcome to the Training Forum! by mark.reynolds	TLS2130 - Getting Started with MPLAB® C for dsPIC DSCs and PIC24 MCUs	0 / 134	Monday, October 08, 2012 7:28 AM mark.reynolds
	Welcome to the Training Forum! by mark.reynolds	TLS2101 - Introduction to the C Programming Language for Embedded Engineers	0 / 142	Monday, October 08, 2012 7:28 AM mark.reynolds
	Welcome to the Training			Monday, October 08, 2012

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