MICROCHIP

Getting Started with Microchip Technical Training Live Online Classes

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*Microchip Technology Inc.*

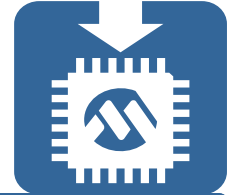V 4.0 October 2012

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 If you have already installed a newer version of the tool, you may use that.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

[Example]
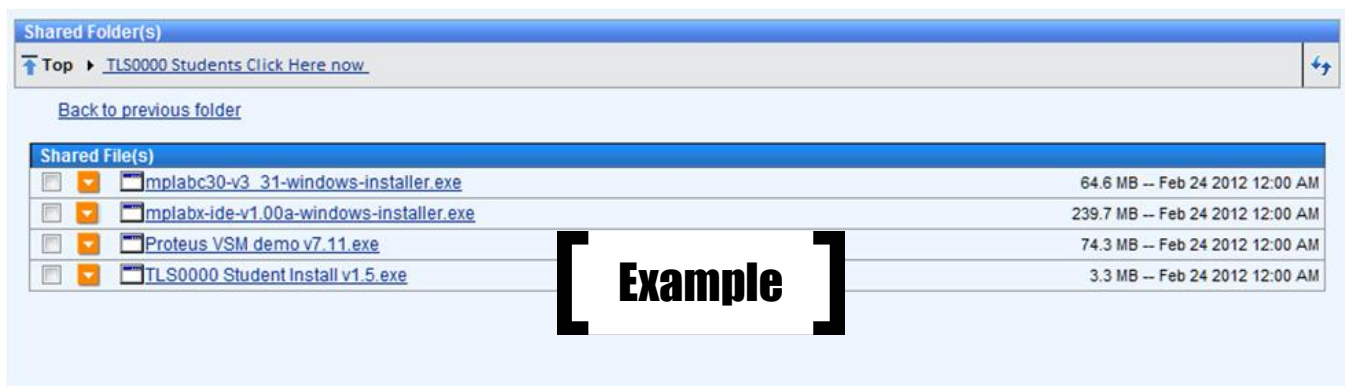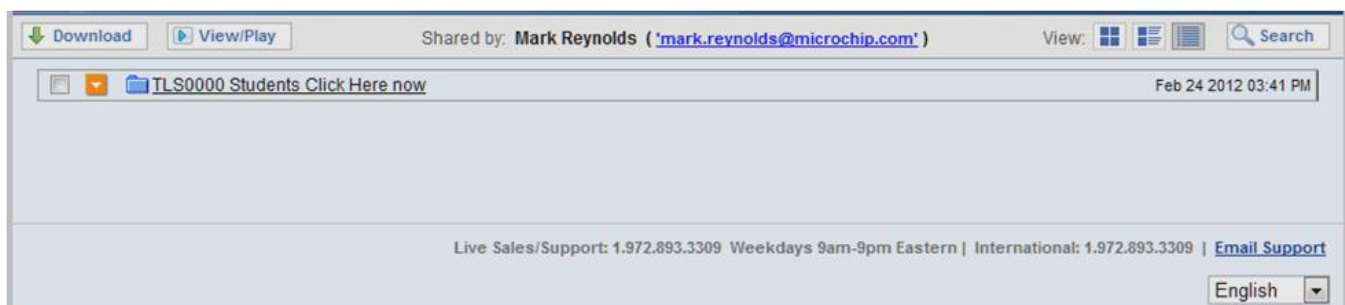
Step by Step Checklist

Checklist

- ☐ Download the files in the download folder
- ☐ Read the flyer '*READ ME FIRST.PDF'*
- ☐ Install MPLAB X
- ☐ Install the XC Compiler for your class
- ☐ Install Proteus VSM simulator
- ☐ Install the Proteus Plug into MPLAB X
- ☐ Run '*<classname> Student Install.exe'*
- ☐ Run and Debug the project Getting Started to get the password

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Install

MPLABX

☑ Requirements

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

? Installing

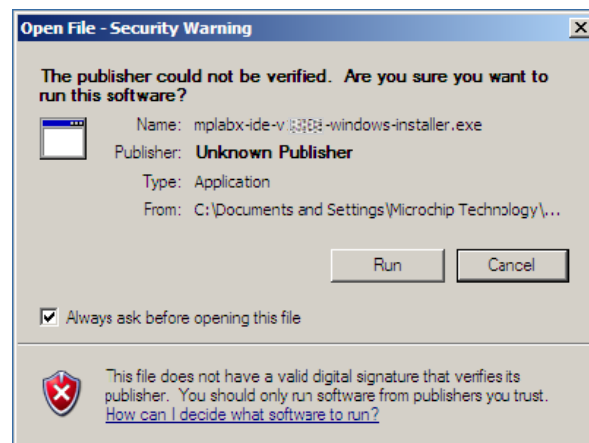**Once you have downloaded the MPLAB X installer, installation is easy.**

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

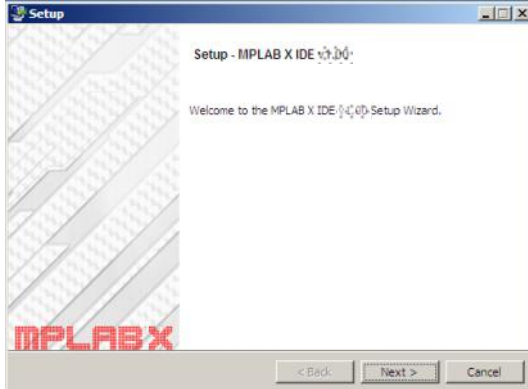### mplabx-ide-vX.XX-windows-installer.exe

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.
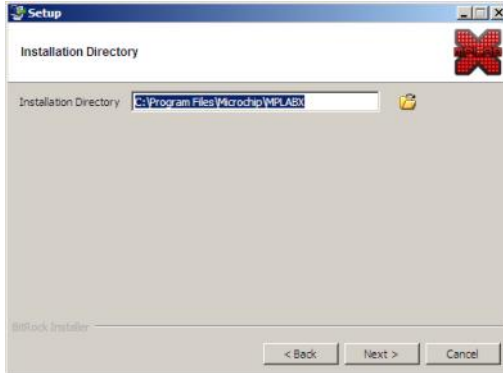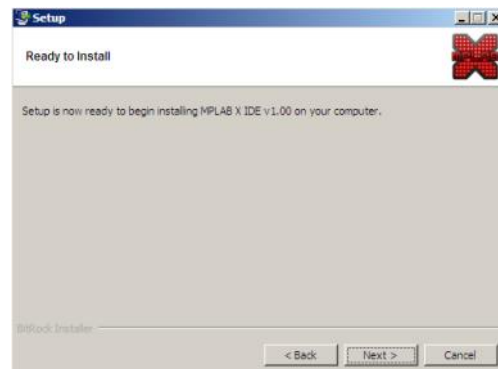How can I decide what software to run?

3 Click **Next**

4 You will need to agree to the License and

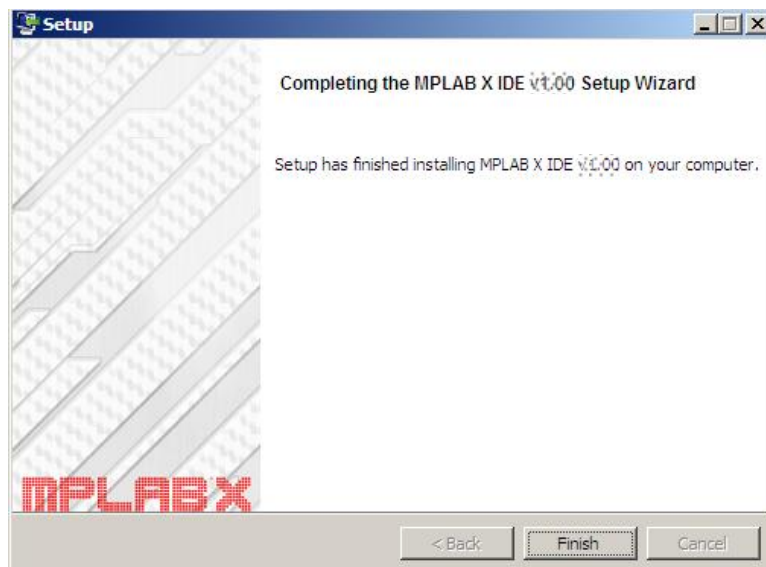Click **Next**

5 Click **Next**
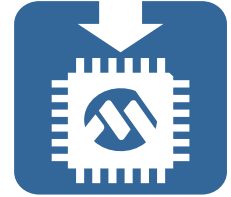
6 Click **Next**

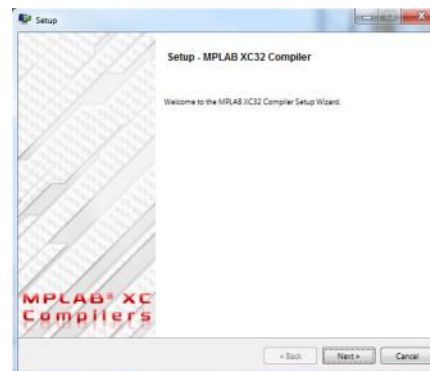**7** Done !

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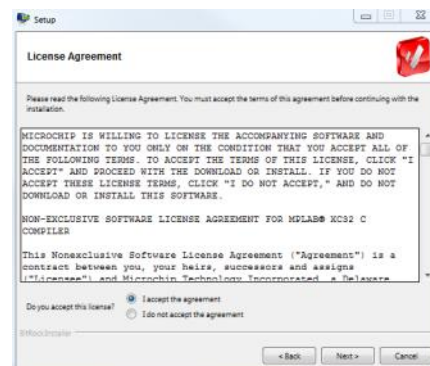
XC8-vX.XX-windows.exe
XC16-vX.XX-windows.exe
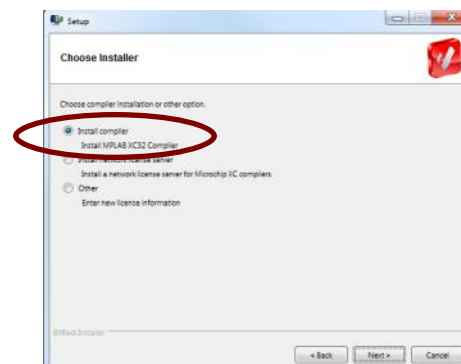**XC32-vX.XX-windows.exe**

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.
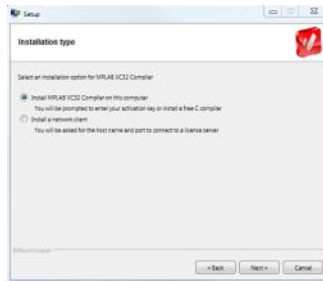
Then click **Next**

4

Accept default selection to install C compiler directly onto this computer.
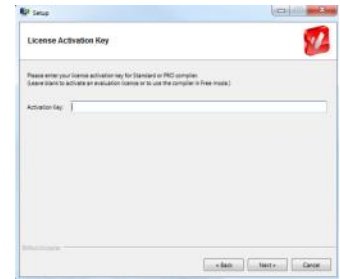
Click **Next**

5

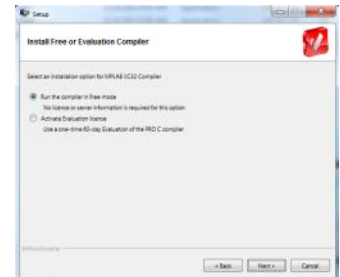Leave activation key field empty.

Click **Next**

6

Click **Yes**

7

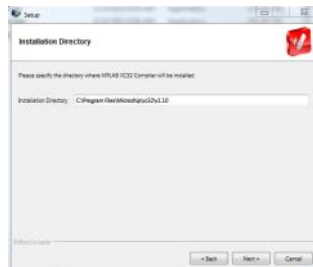Accept default selection to run compiler in free mode

Click **Next**

8
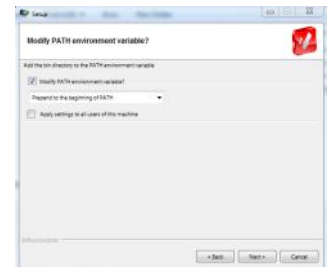
Accept default compiler path

Click **Next**
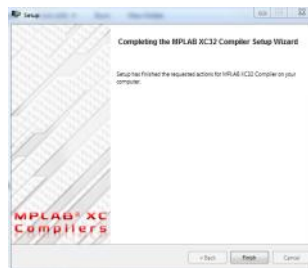
9

Accept default selection to modify PATH variable
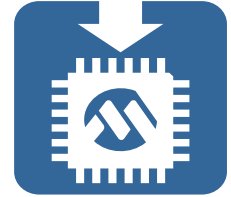
Click **Next**

10

Click **Finish**

And you're done!

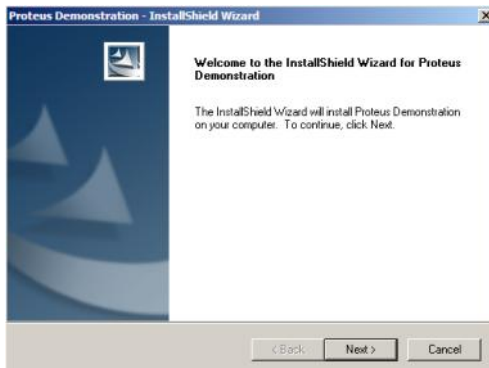# *Install Proteus VSM*

◎ Procedure

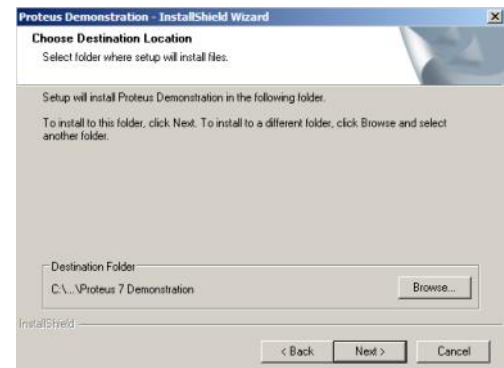**1** Double click on the installer you downloaded named:

Proteus VSM vX.XX.XXexe
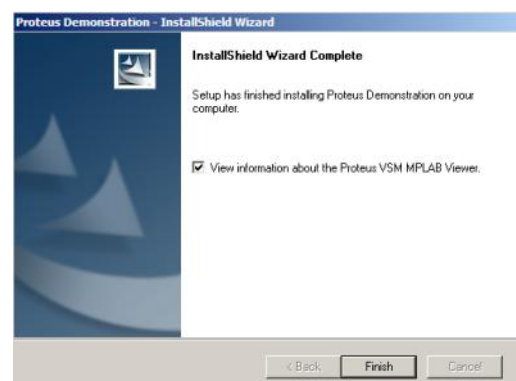
2 Click **Next**

3 Click **Next**

4 Click **Next**

5 Click **Finish**

Install the MPLAB X Proteus Plug In
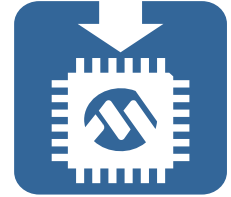
⊙ Procedure
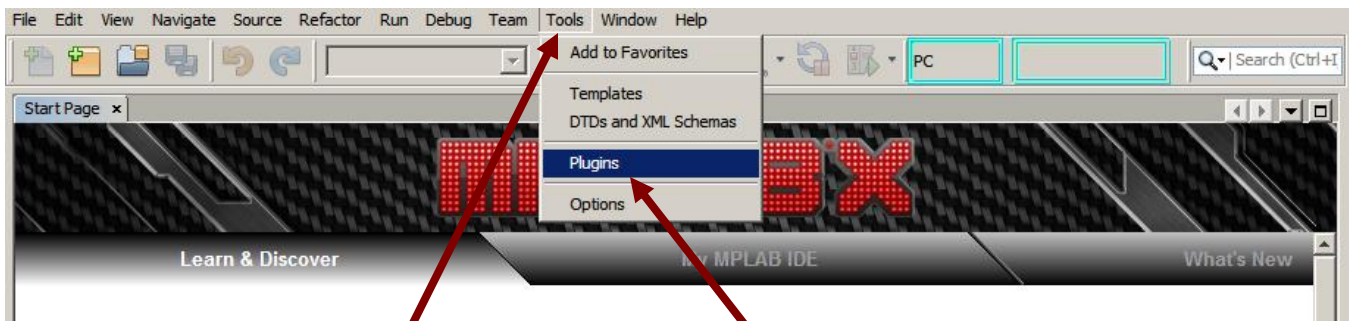
① Open MPLAB X

③ Then **Plug ins**

② Go to the **Tools menu**

④ Click on the **Available Plugins** tab

⑤ Click the radio button to select Proteus VSM Viewer
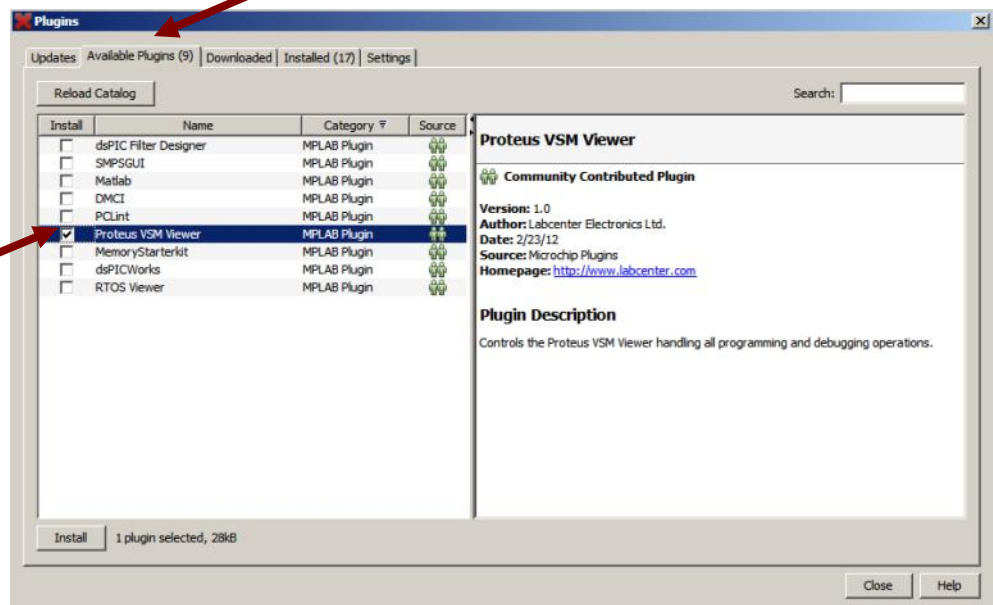
6 Click **Next**

7 Click **Next**

8 The installer will now ask you to let it restart MPLAB X. Once MPLAB X restarted the plug in is ready for use.

Click **Finish**

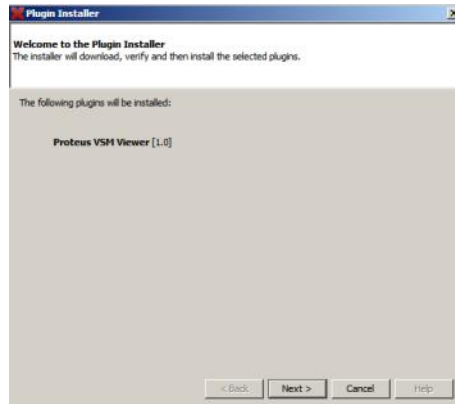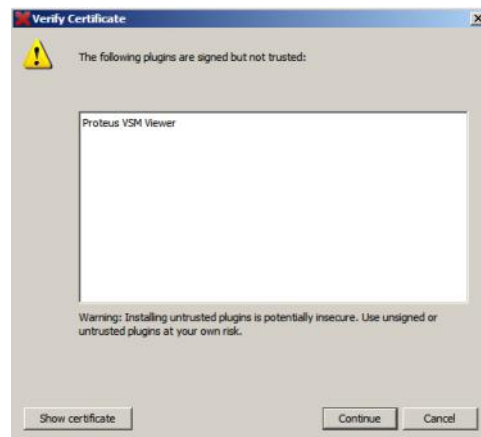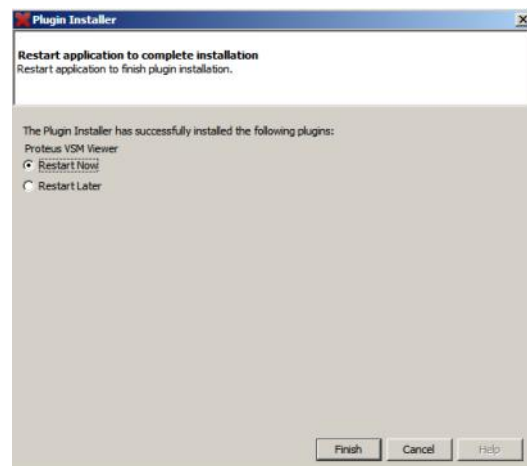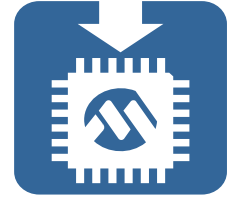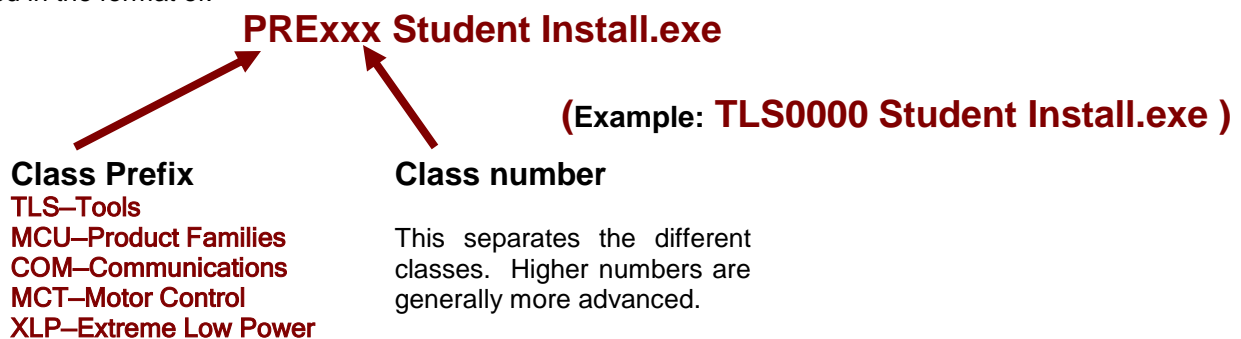< This page intentionally blank >

Install Student Files

◎ Procedure

The *'<classname> Student Install.exe'* file is a Winzip self extractor file that sets up 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:
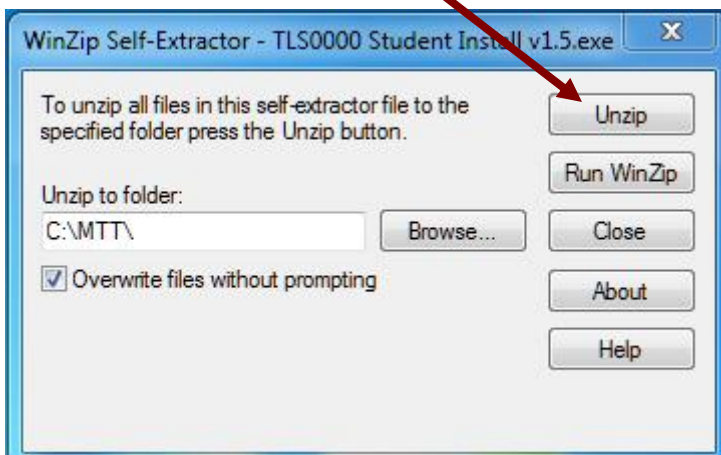
PRExxx Student Install.exe

(**Example: TLS0000 Student Install.exe**)

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

Class number

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

Double click the Student Install.exe file and it will unpack all the files to the folder:

1 **C:\MTT\PRExxxx**

Then click Unzip

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

WinZip Self-Extractor - TLS0000 Student Install v1.5.exe

To unzip all files in this self-extractor file to the specified folder press the Unzip button.

Unzip to folder:
C:\MTT\   Browse...

☑ Overwrite files without prompting

Unzip
Run WinZip
Close
About
Help

2 Click **OK** when complete

WinZip Self-Extractor

50 file(s) unzipped successfully

OK
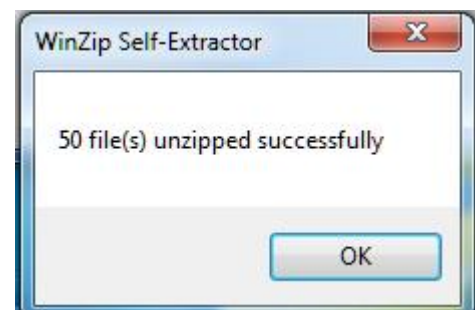
Here is an example of a typical unzipped Student Install

The *'Getting Started'* lab folder

Lab exercises and their solutions

Useful documents and Literature 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

Schematic file for Proteus

A copy of this guide

A copy of the READ ME FIRST flyer

Computer ▸ Windows7_OS (C:) ▸ MTT ▸ MCU3121 ▸

File   Edit   View   Tools   Help

Organize ▾   Include in library ▾   Share with ▾   Burn   New fold

Name

★ Favorites
  Desktop
  Downloads
  Recent Places

  Getting Started.X
  Lab1 Solution.X
  Lab1.X
  Lab2 Solution.X

Libraries
  Documents
  Music
  Pictures
  Videos

  Lab2.X
  Lab3 Solution.X
  Lab3.X
  Lab4 Solution.X
  Lab4.X
  Lab5 Solution.X
  Lab5.X

Computer
  Windows7_OS (C:)
  SMTD_2011 (E:)

  Literature
  Presentations
  Tools

Network
  EXP16 (PIC24FJ64GA004).DSN
  Getting Started with MCU3121 Live Online.pdf
  READ ME FIRST.pdf
  version.txt

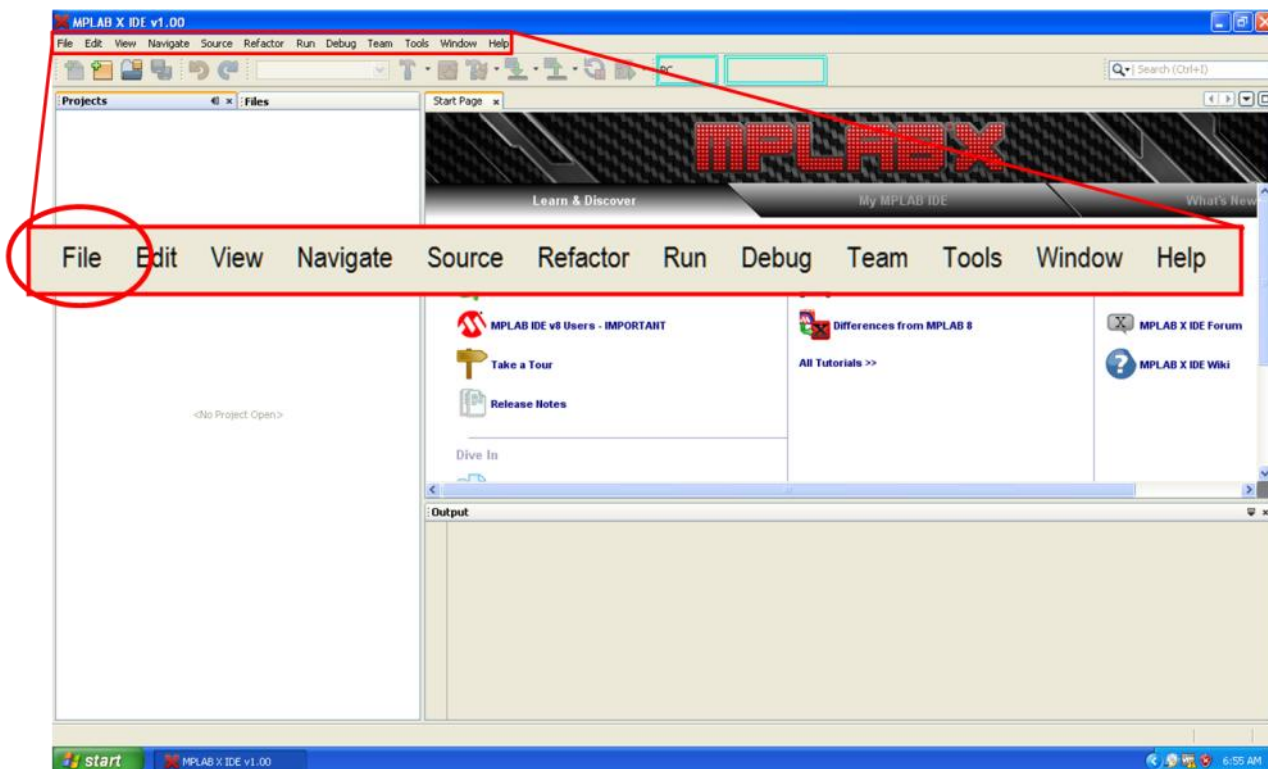# *Run the Getting Started Lab*

❓ Getting the password

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

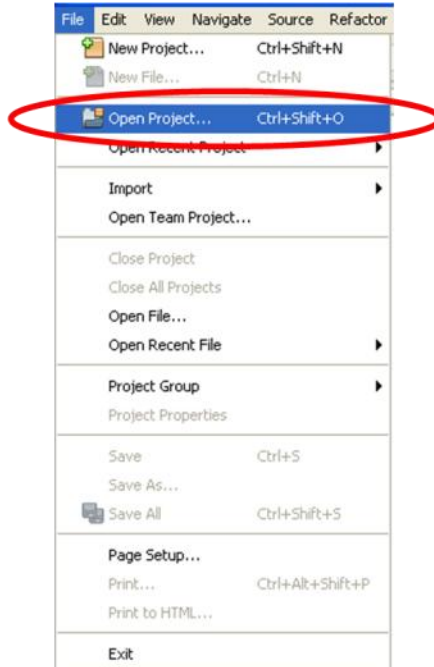**2** When the desktop opens, go to the File menu in the upper left corner.
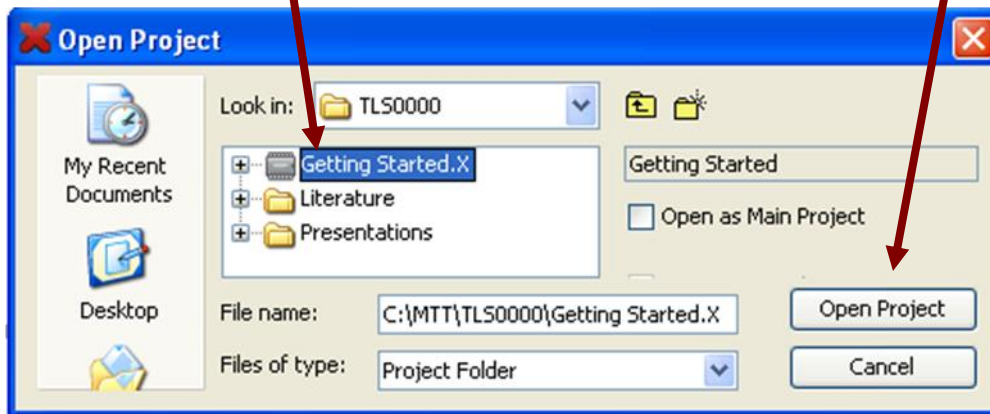
3 Now click
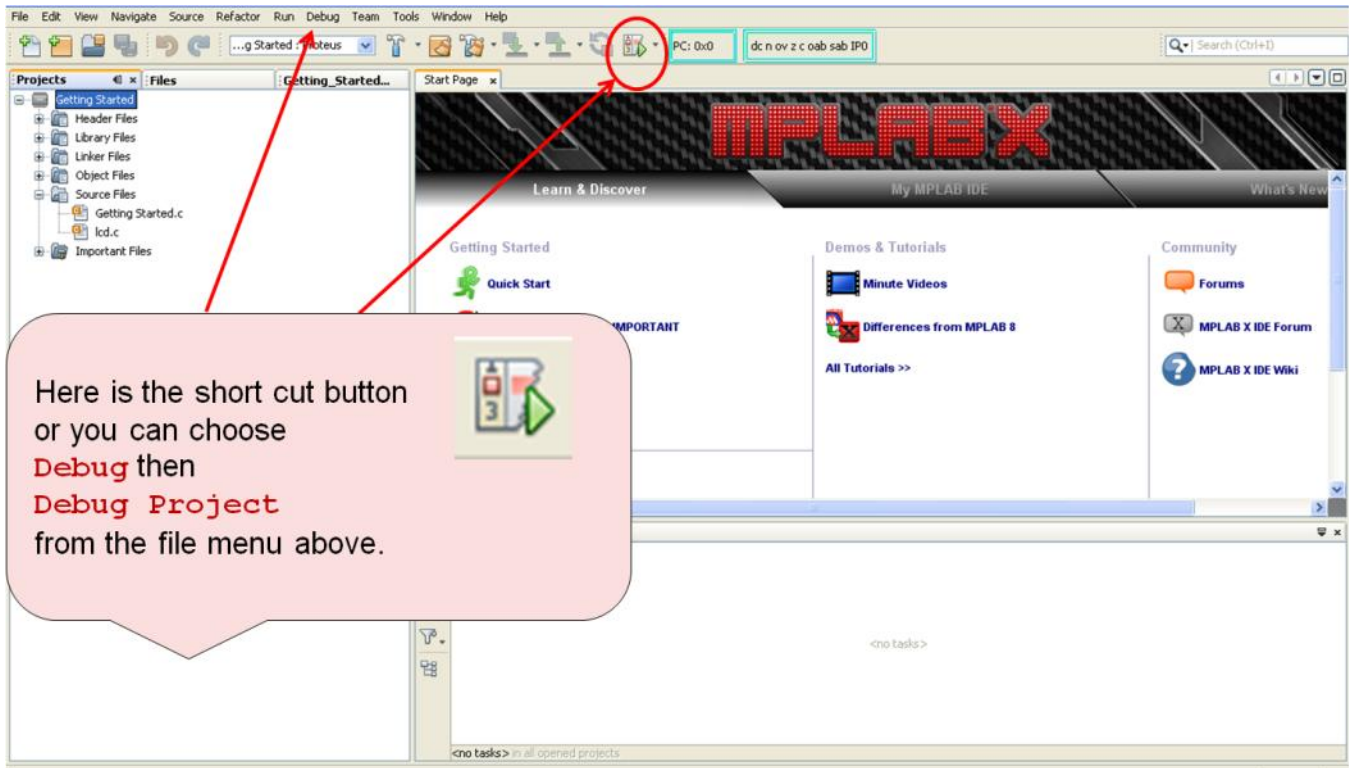Open Project

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

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

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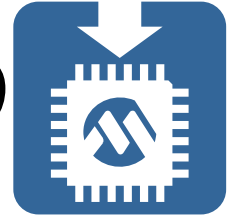

Here is the short cut button or you can choose **Debug** then **Debug Project** from the file menu above.

❻

This project is designed to verify that all the tools you installed are working properly. If so, the class password will be displayed on the LCD.

The password will be displayed here!
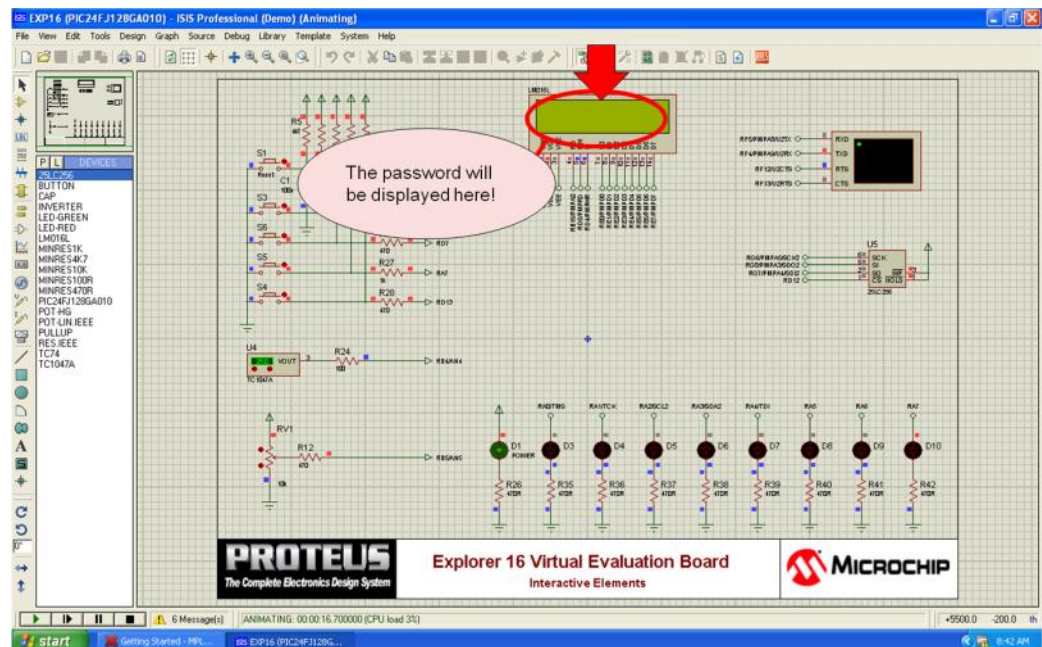
Congratulations! You are ready for class.

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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.
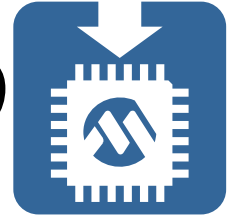
2 Contact us through :
`www.microchip.com/ support`
Here you can ask specific questions if you are stuck on a single topic.

Get Help

www.microchip.com/forums

③ 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.

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