



MICROCHIP

GDD X Plug-in Installation Guide

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1. Installing GDD X plug-in under MPLAB X

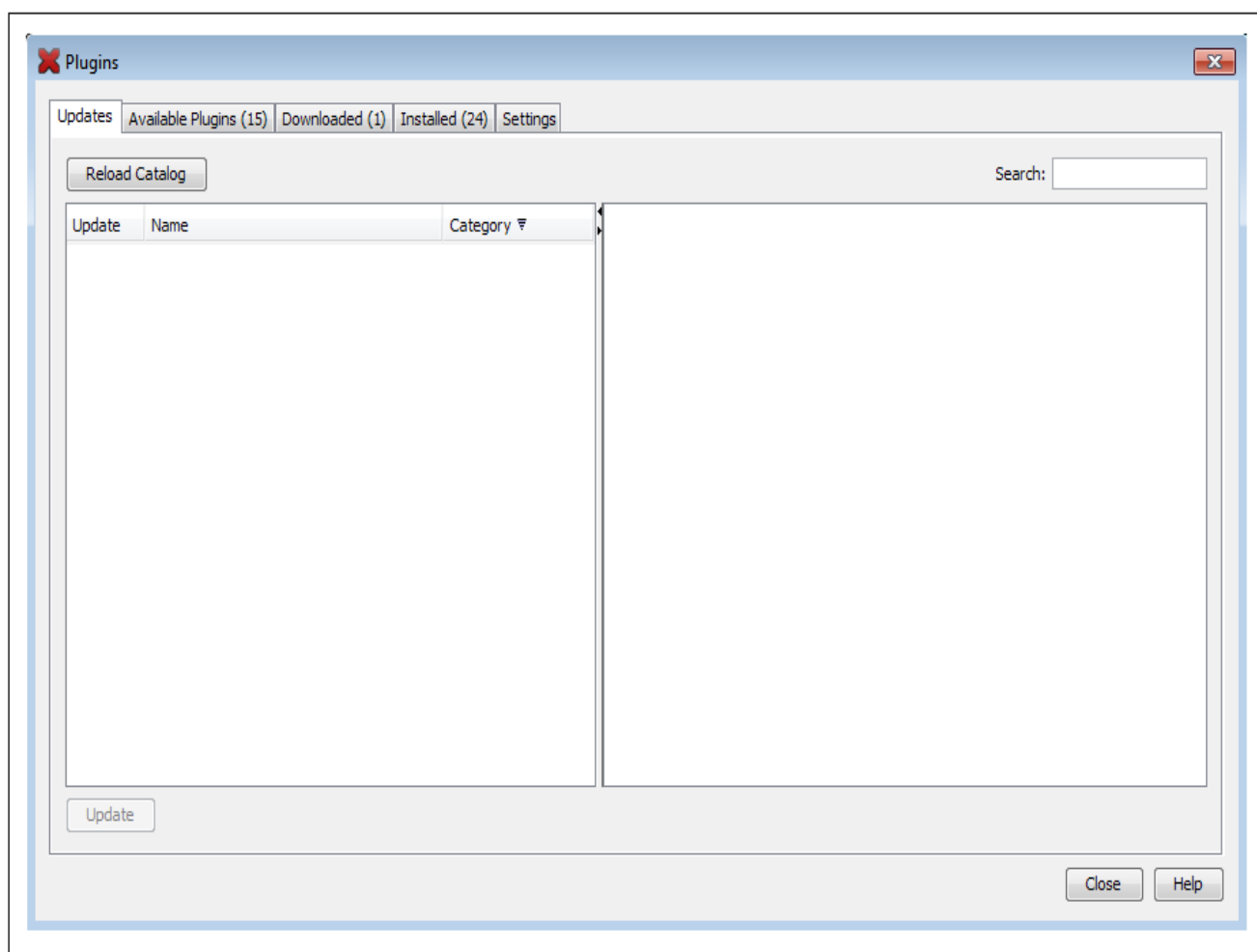
Pre-requisites

1. MPLABX IDE (v1.20 and above).
2. Java Runtime Environment (v1.6.0 and above).

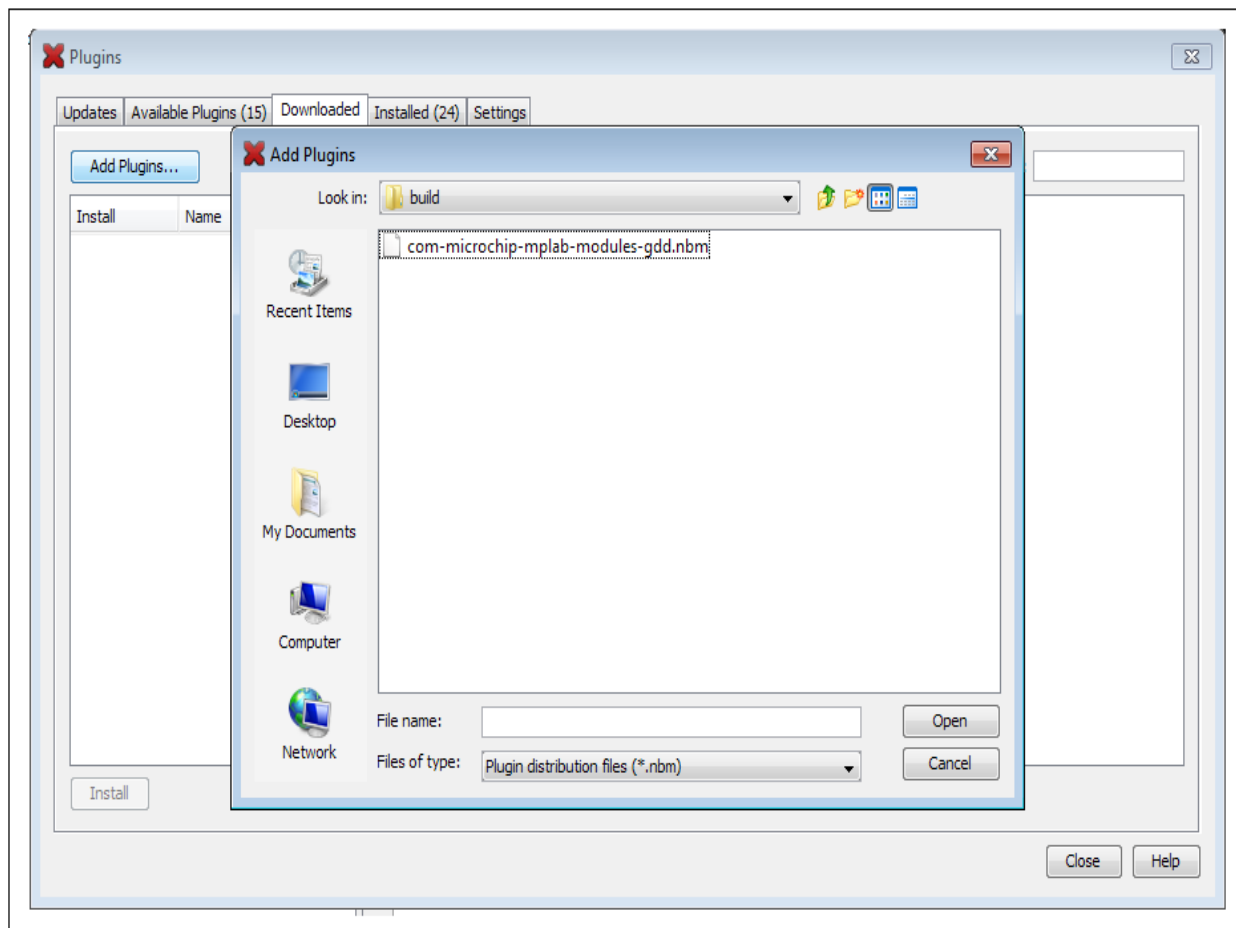
Plug-in Installation Steps

1. Launch MPLAB X IDE, Navigate to Tools ->Plug-ins.

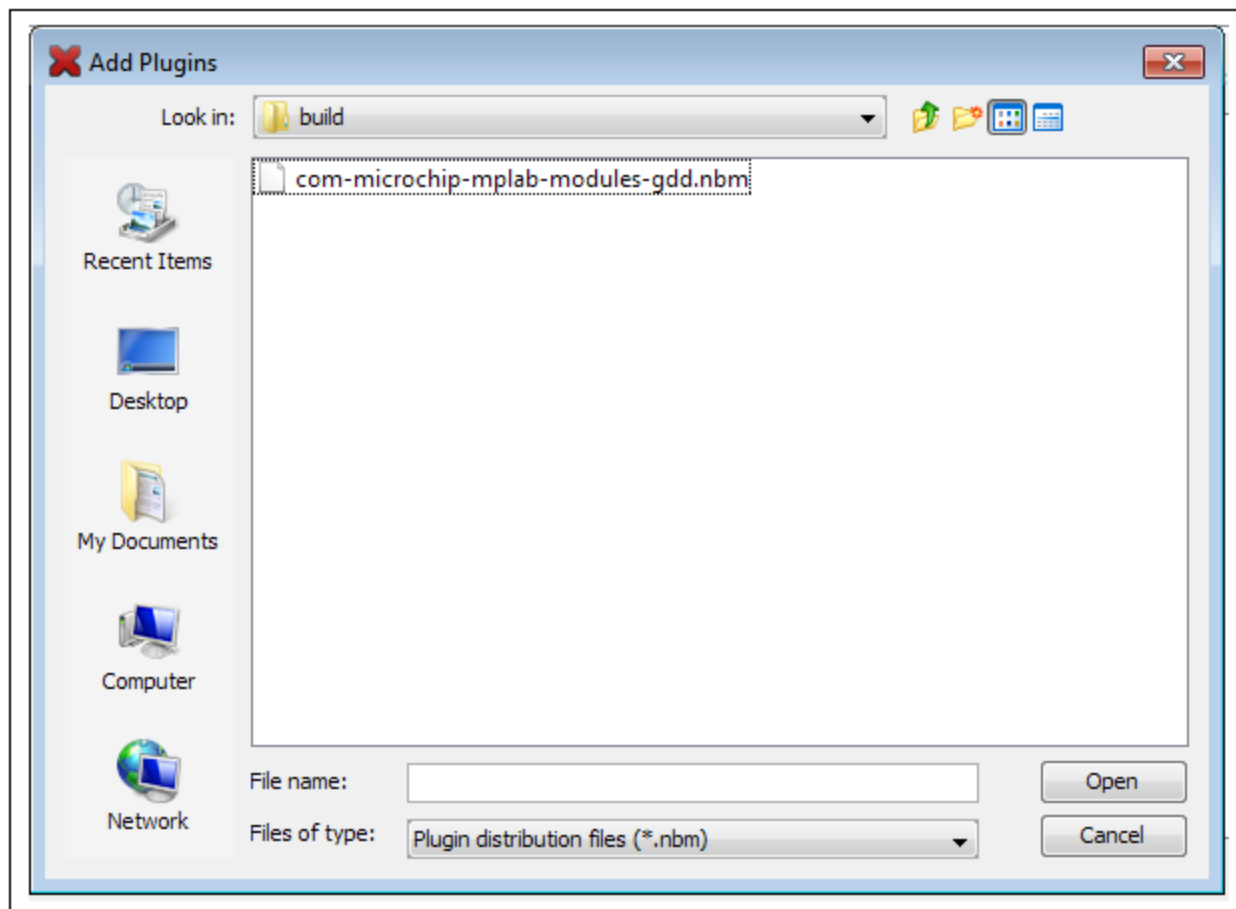
The below Plug-in dialog should appear.



2. Select “Downloaded” tab and click on “Add Plug-ins” button.

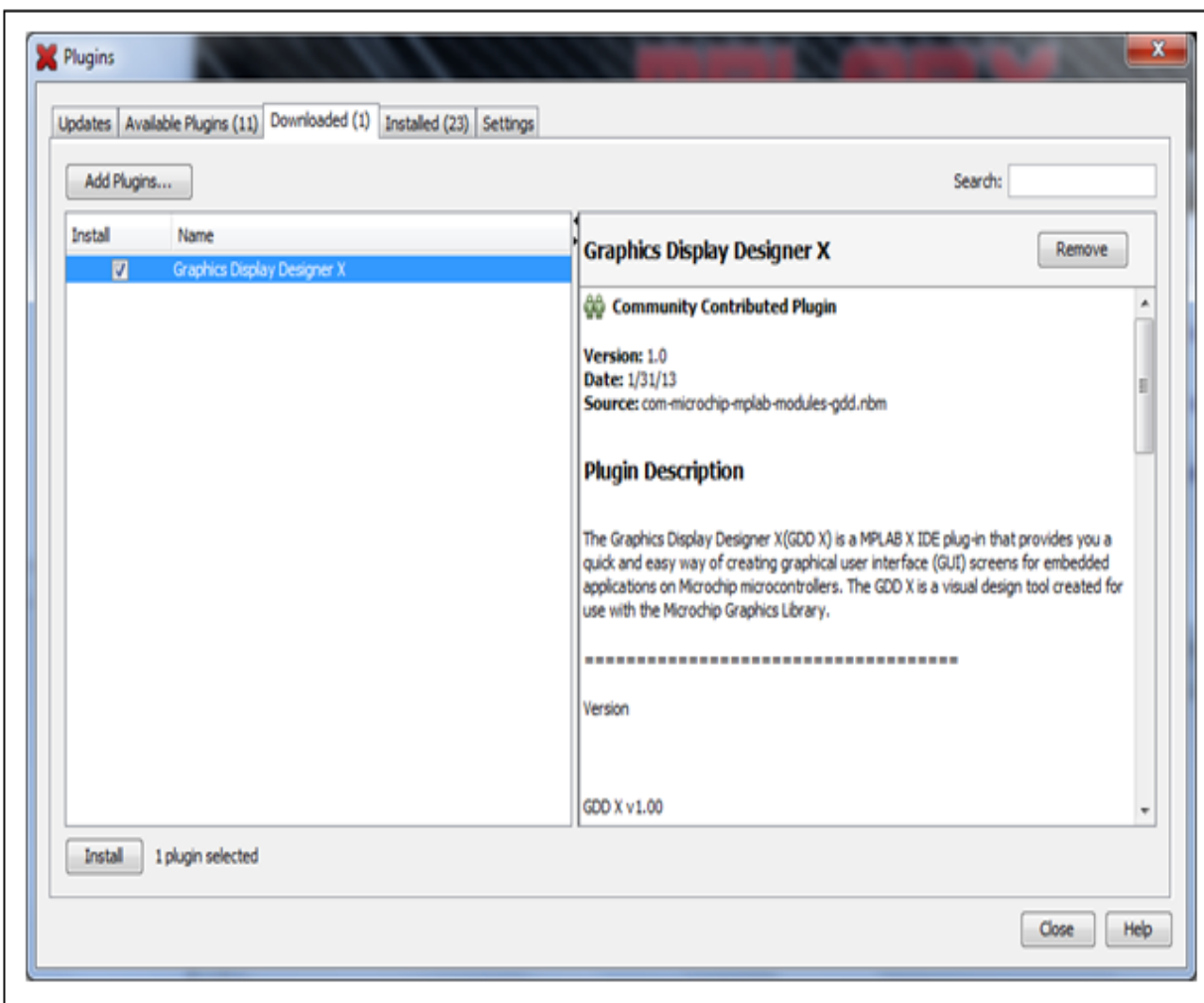


3. Locate GDD X NBM file in the local disk from the user saved path. The released version of GDD X NBM file is named as “com-microchip-mplab-modules-gdd.nbm”.

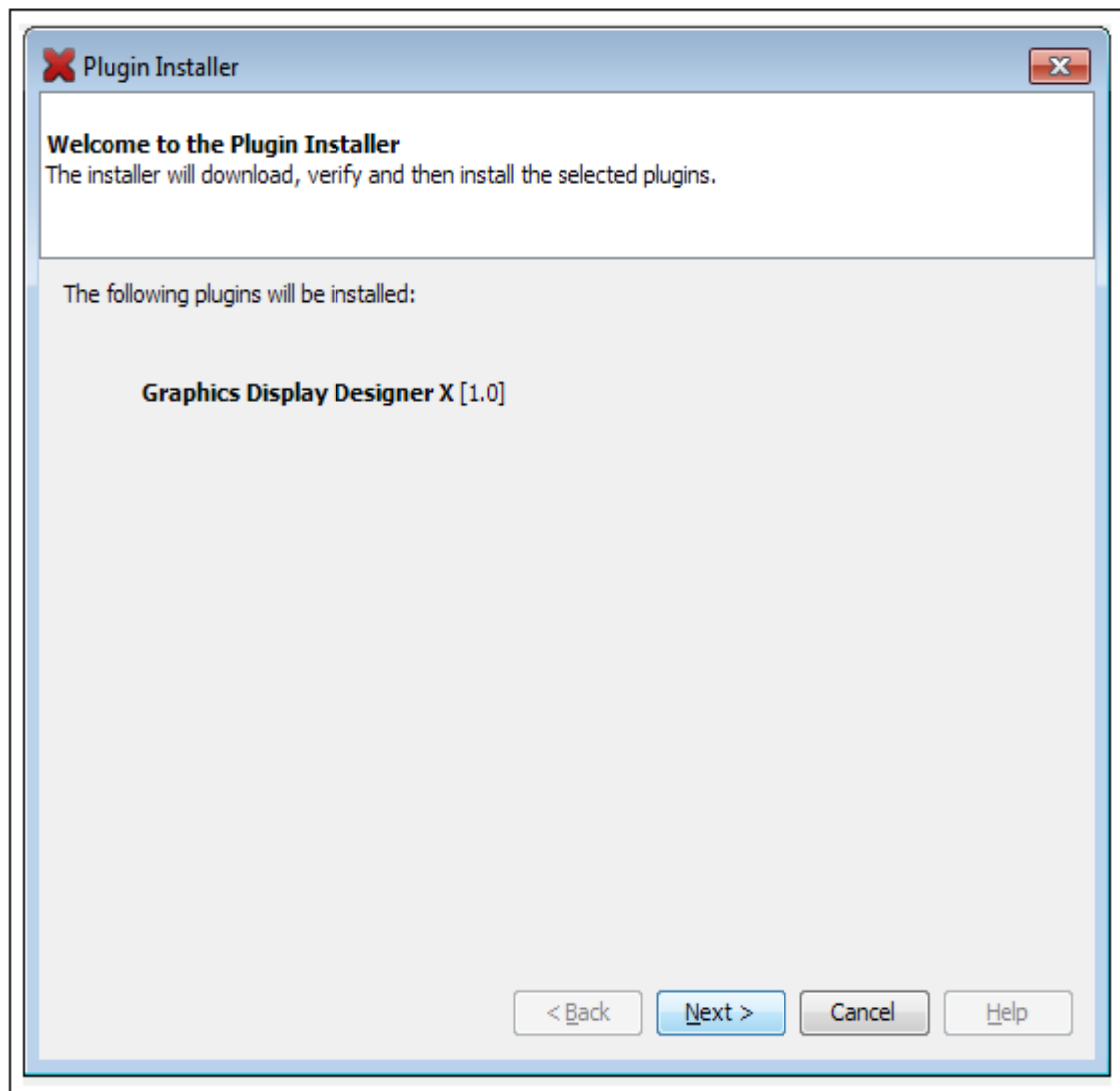


4. Select the NBM (com-microchip-mplab-modules-gdd.nbm) file and Click on “Open” button.

5. In the “Downloaded” tab you can see “Graphics Display Designer X” with description and plug-in version.

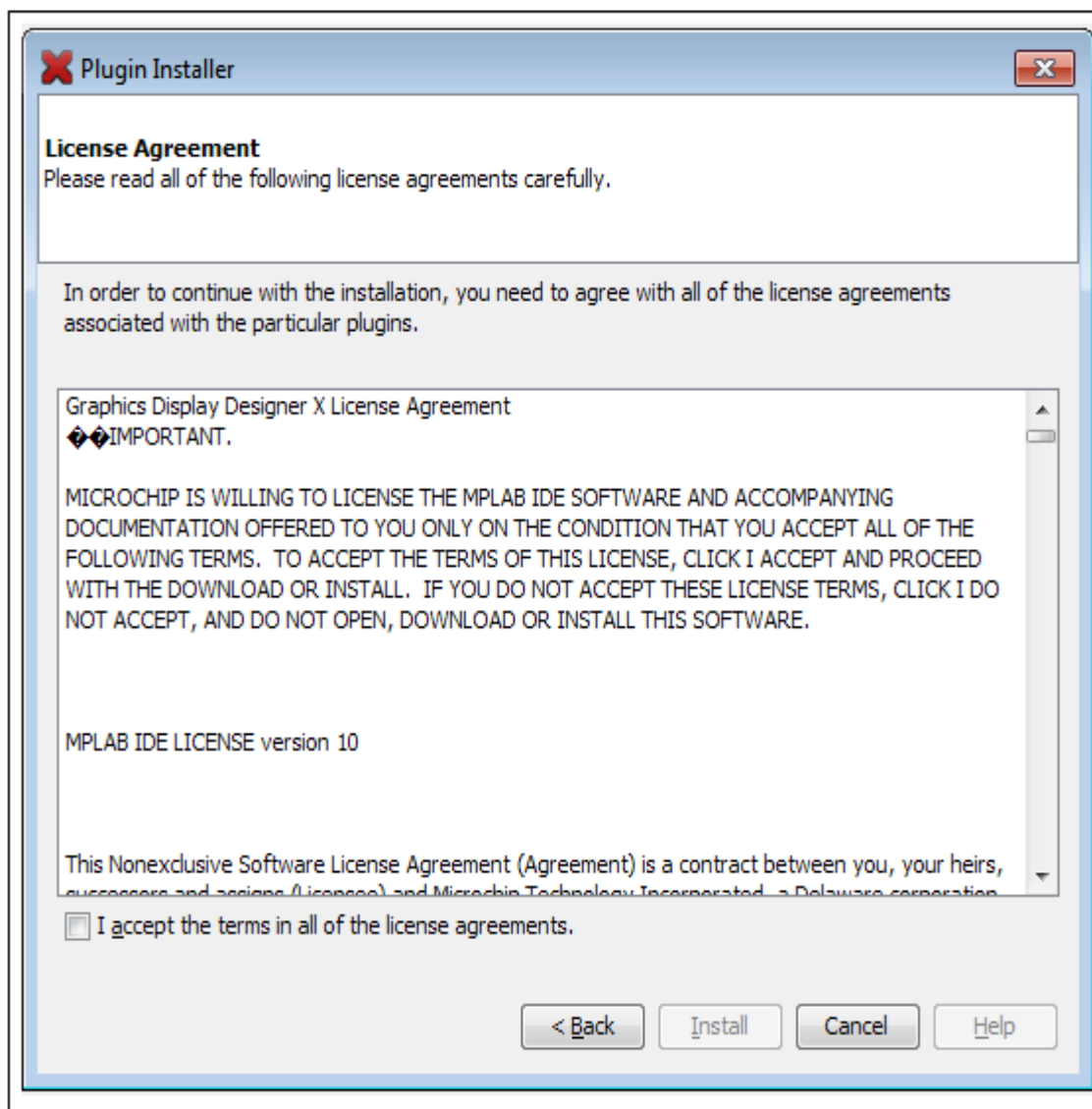


6. Click on “Install” button to start plug-in installation. Press “Next” to continue installation.

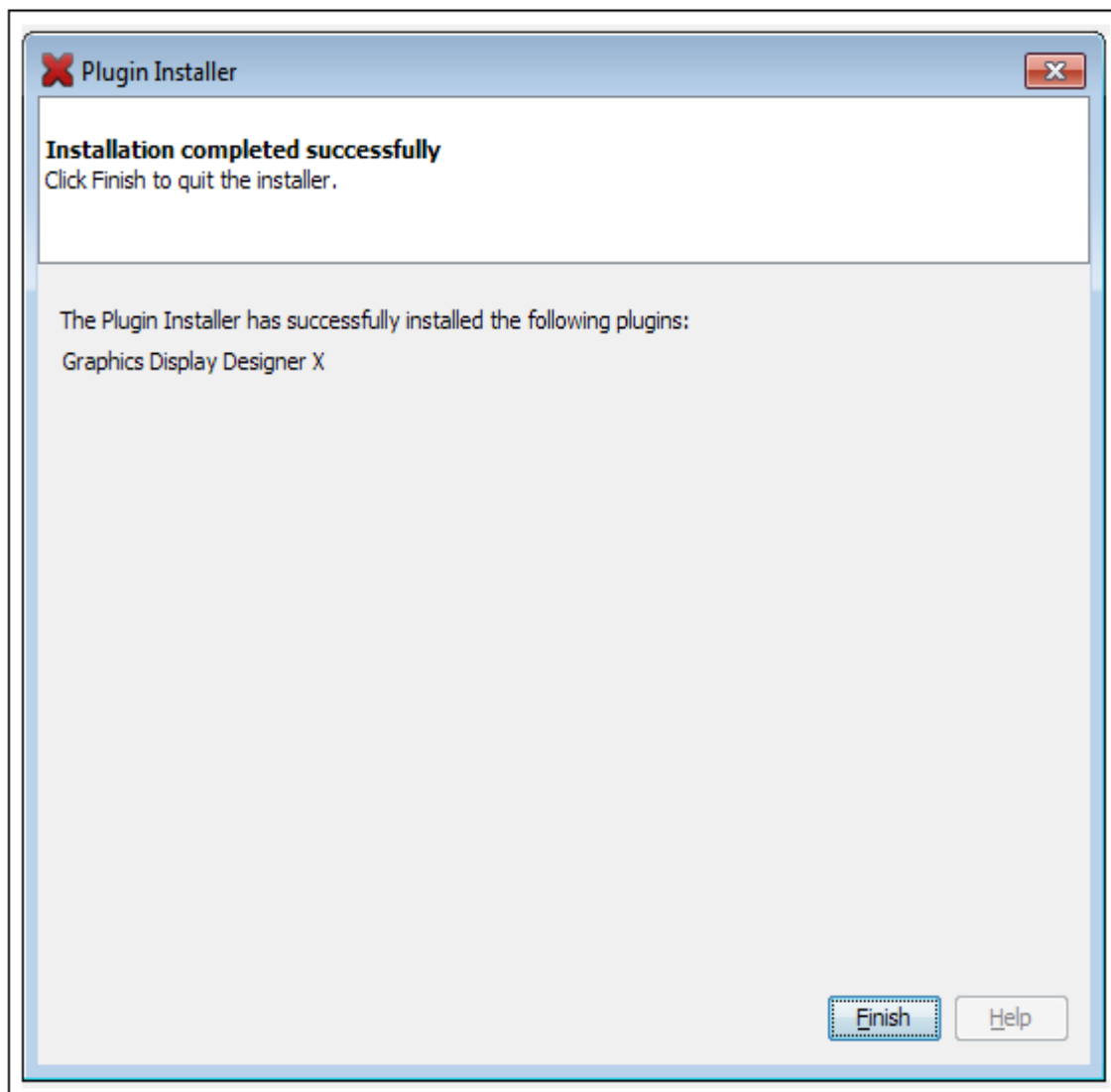


7. Click and check the option “I accept the terms in all of the license agreements” to enable “Install” button. The installation process will begin.

Note: Ignore warning dialogs related to signing.



8. Click on “Finish” to complete the Plug-in installation.



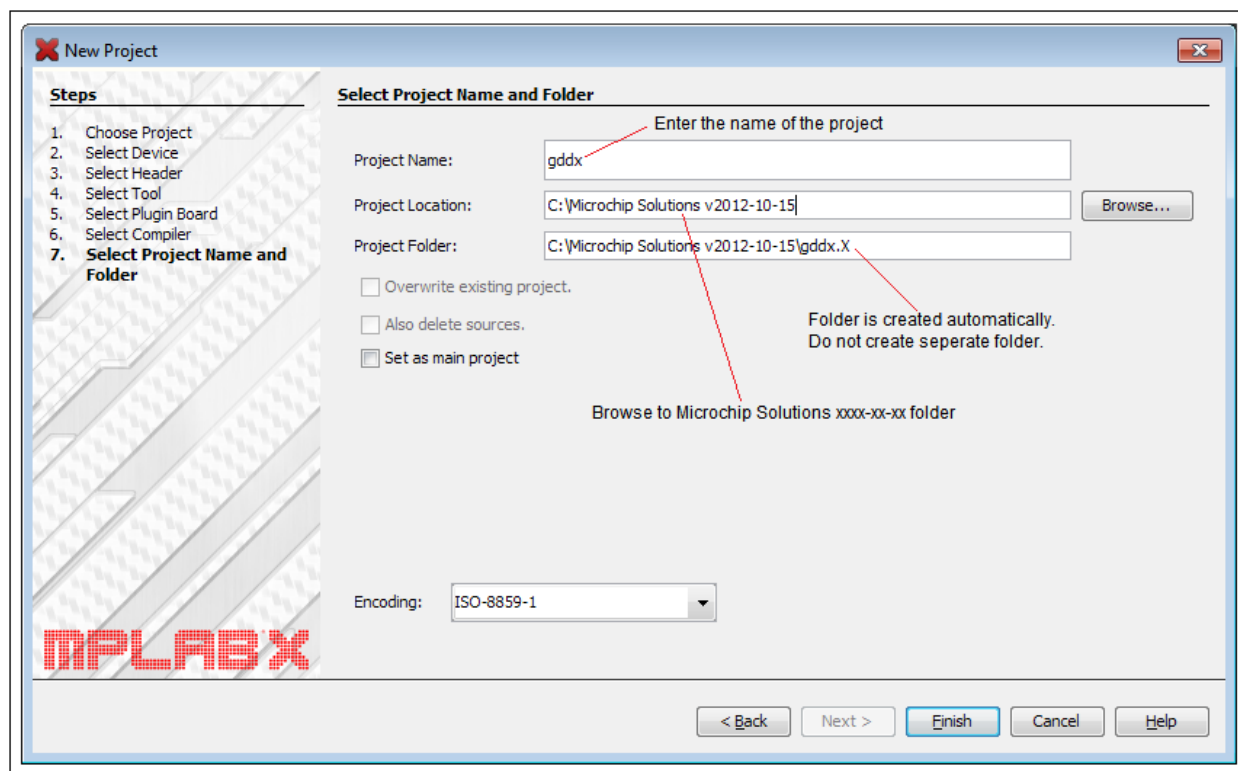
2. Creating a project using MPLAB X

Pre-requisites

1. The latest Microchip Application Libraries (MLA) must be installed on your system. This can be downloaded from the Microchip website.
2. GDD X project folder must be inside “Microchip Solutions vXXXX-XX-XX” folder only.
3. Latest C30/C32 compiler version for MPLAB X.

MPLAB X Steps

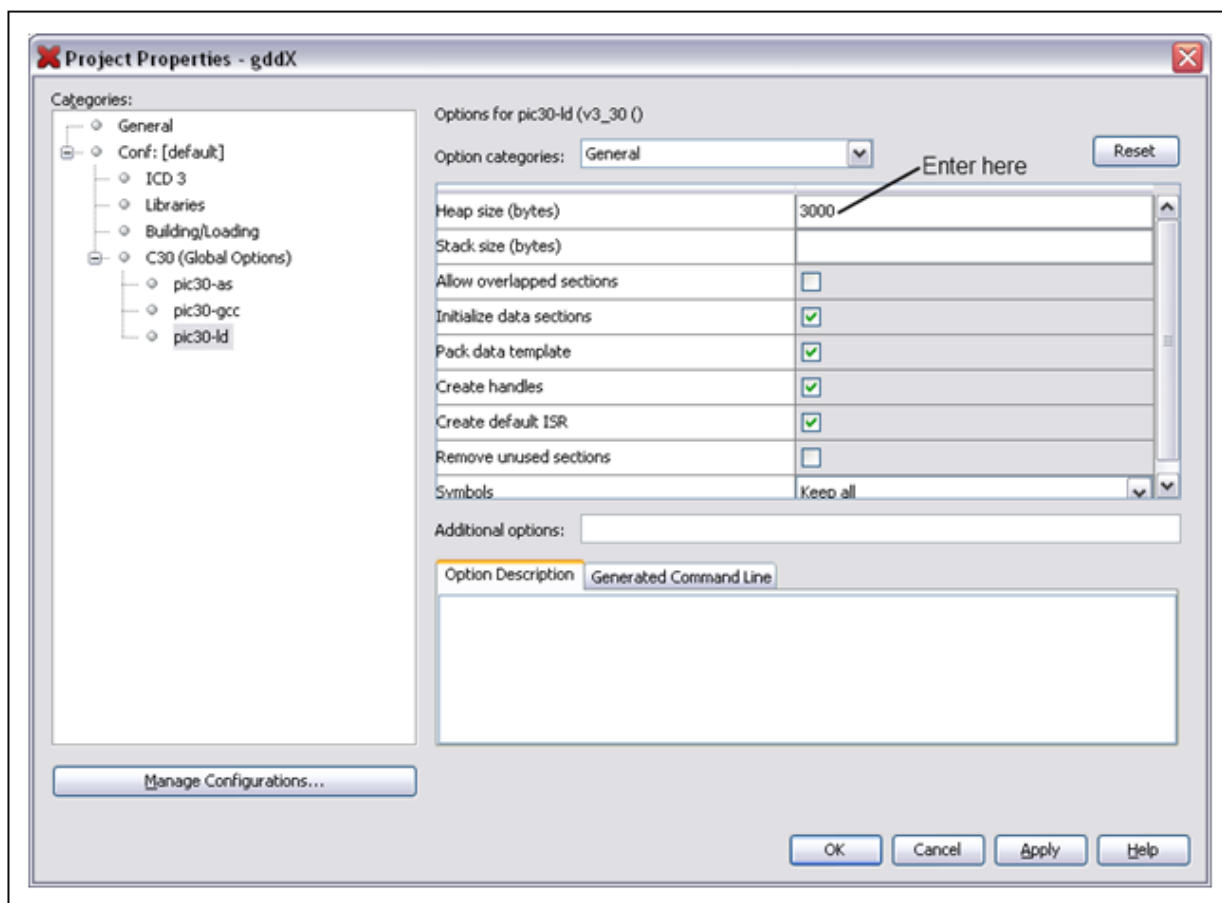
1. Click on File->New Project when MPLAB X starts.
2. Select Microchip Embedded->Standalone Project and press “Next”.
3. Select the device(PIC Device) and press Next.
4. Select Header dialog, press Next.
5. Select the programmer tool(ICD3, PICKit etc) and press Next.
6. Choose a compiler (C30) and press Next.
7. This will open the last dialog which is the Project creation dialog. Please follow the below steps exactly as mentioned
 - a. Name of the project must be entered in the “Project Name” field.
 - b. **Project location must be inside the MLA directory** (e.g.: E:\Microchip Solutions v2012-05-12) .

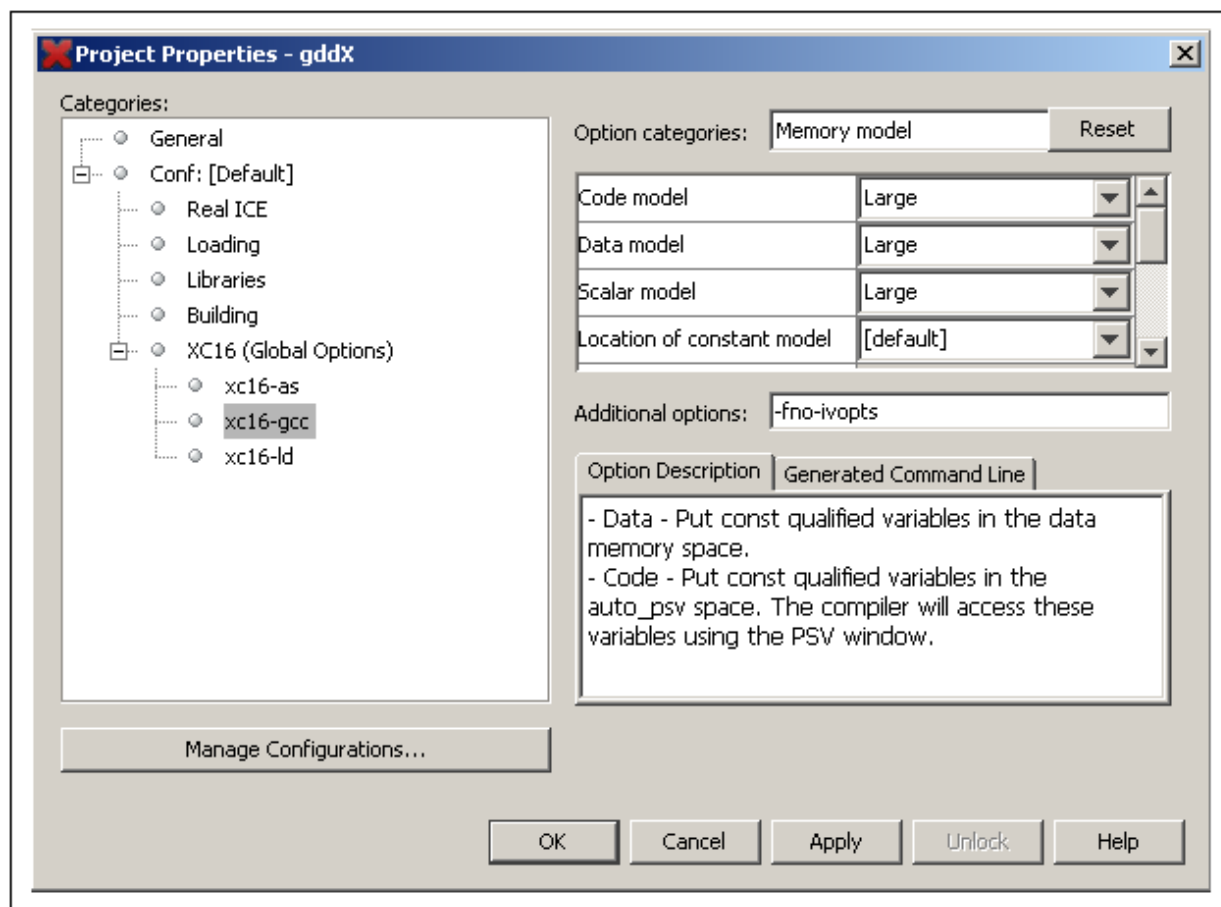


8. On Pressing Finish, the project creation is successful.

Project Settings: (Right click on Project name in Project window and Select Properties)

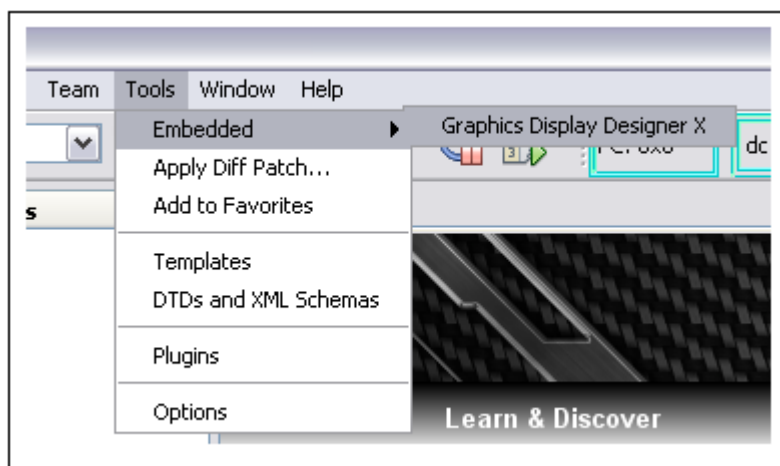
1. **Heap memory** : Select pic30-ld->Option Categories(General)-> Heap Size.



2. Large code memory: Select pic30-gcc->Option Categories(Memory Model).

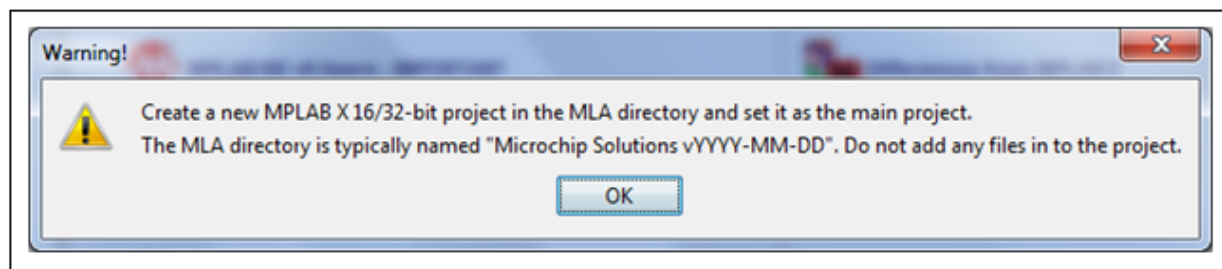
3. Launching GDD X from MPLAB X

Select Tools->Embedded->Graphics Display Designer X.

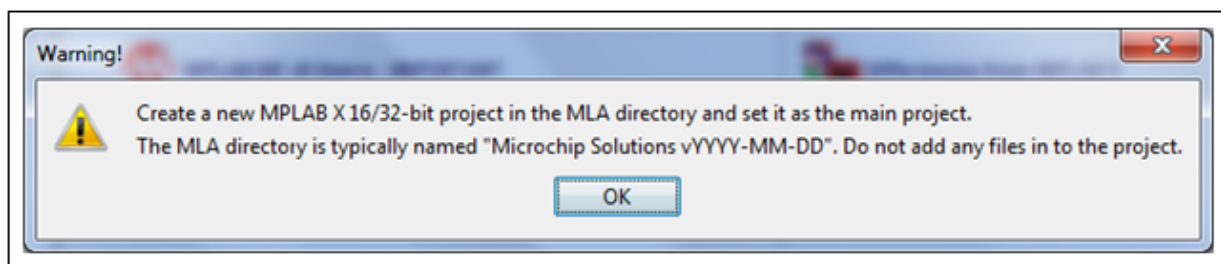


4. Warnings while operating GDD X

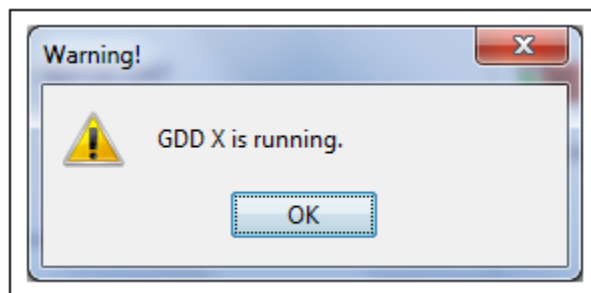
1. When there is no project selected in MPLAB X IDE.



2. When the MPLAB X project selected is not present in the Microchip Solutions folder.



3. When user tries to open GDD X multiple times.

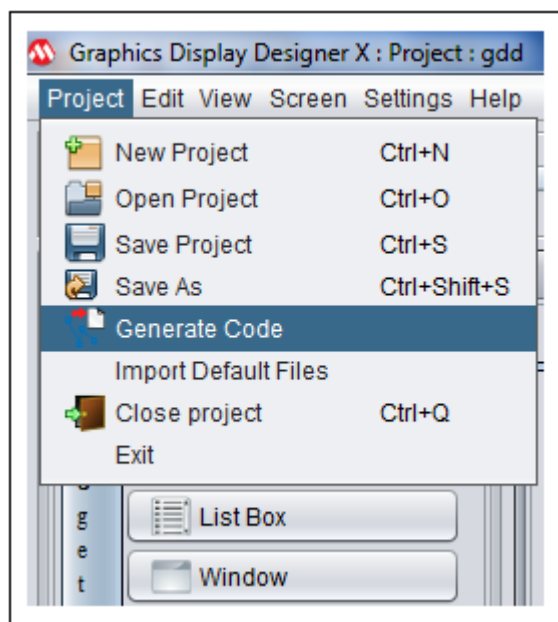


Note: If GDD X doesn't start from Tools->Embedded, then please restart the MPLABX IDE and try again.

5. Code generation from GDD X

Create your design using the GDD X and save it.

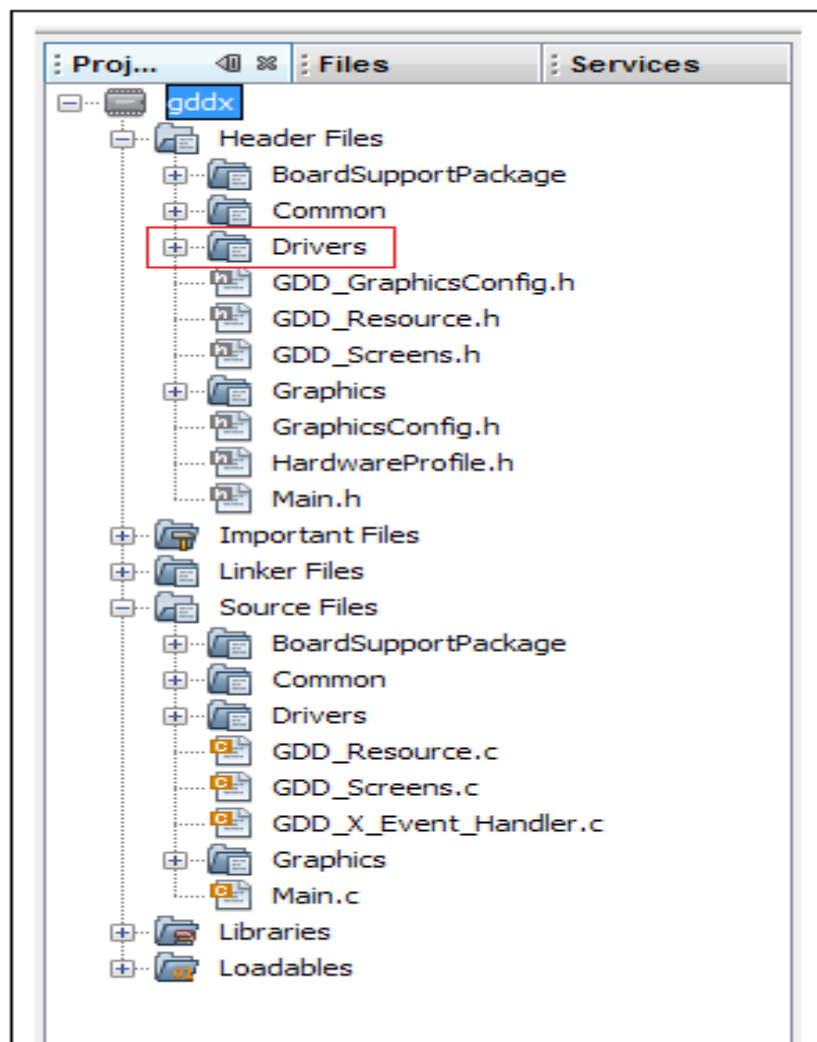
Click on Project->Generate Code to generate code from GDD X and add files to MPLAB X project



MPLAB X Directory Structure on successful code generation

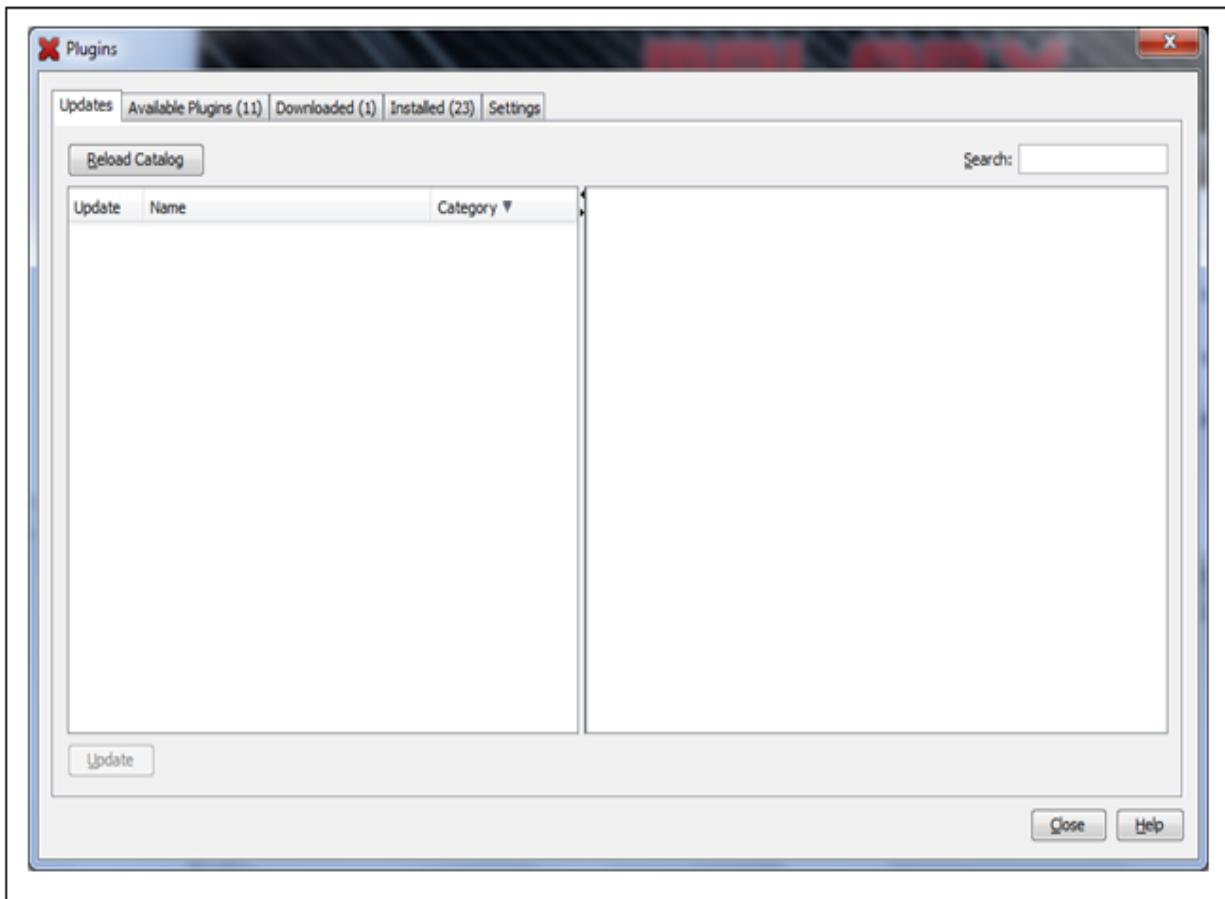
The project window on the MPLAB X on successful generation of code would look similar to attached screen shot below.

The driver files would be under Drivers.

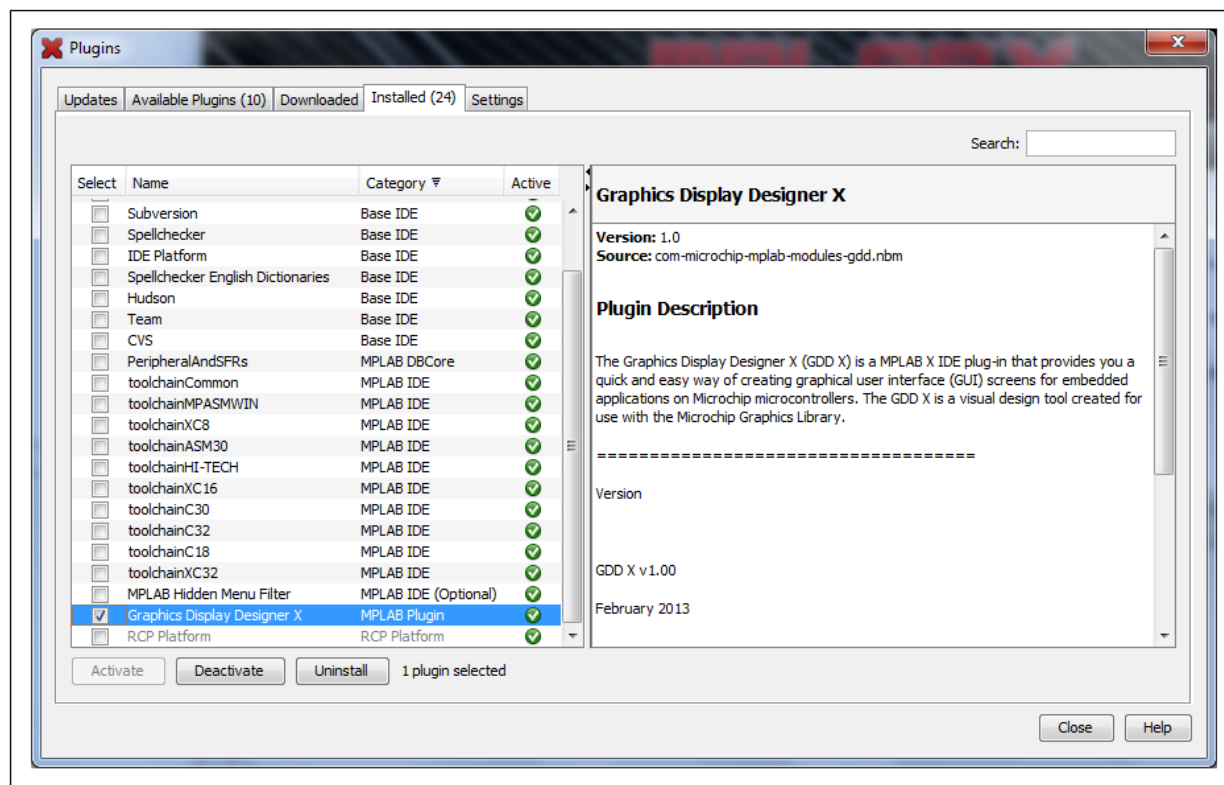


6. Uninstalling Plug-in from MPLABX

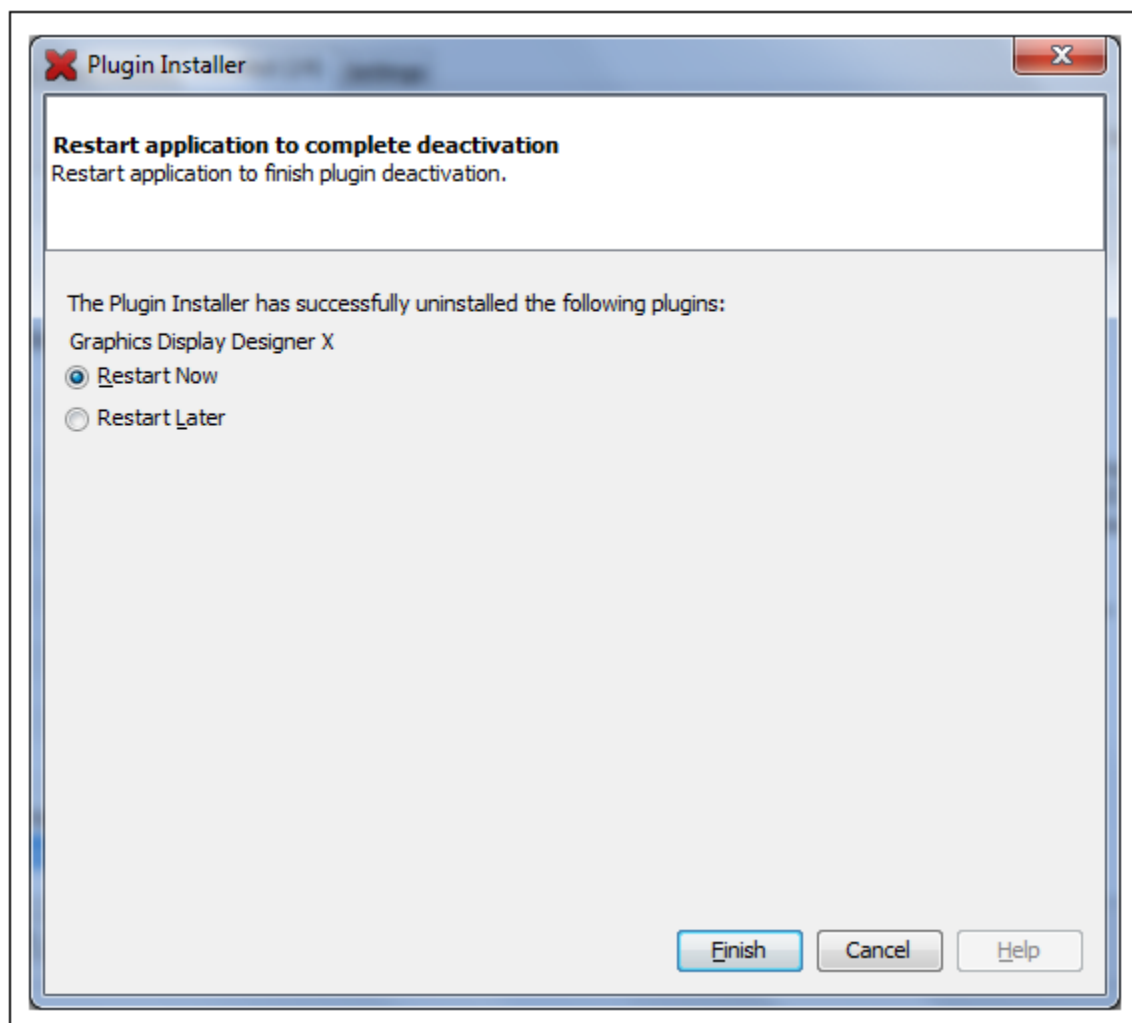
1. Navigate to Tools -> Plug-ins.



2. Select “Installed” tab and check for “Graphics Display Designer X”.



3. Click “Uninstall” button and restart the MPLAB X IDE by selecting “Restart Now” option.



This will uninstall and remove the plug-in from MPLAB X IDE.