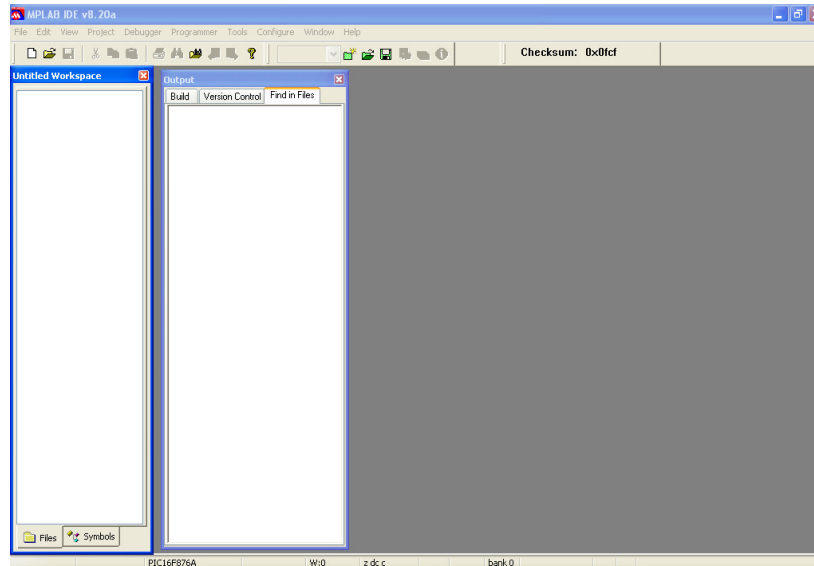


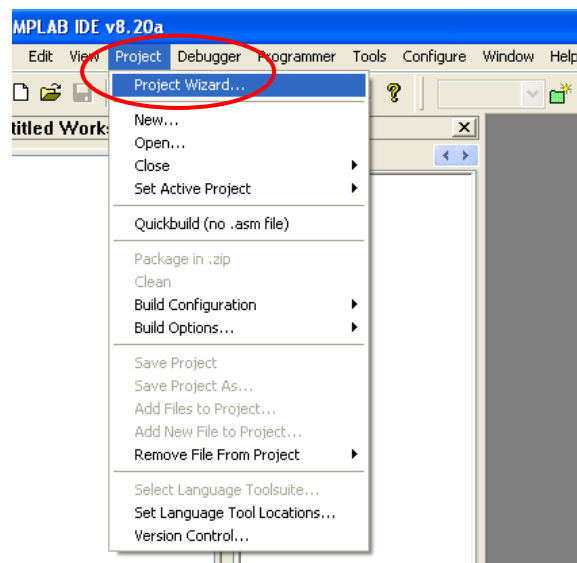
Open Project for PIC16F series.

To start MPLAB IDE and open project for PIC16F series, please follow the step below:

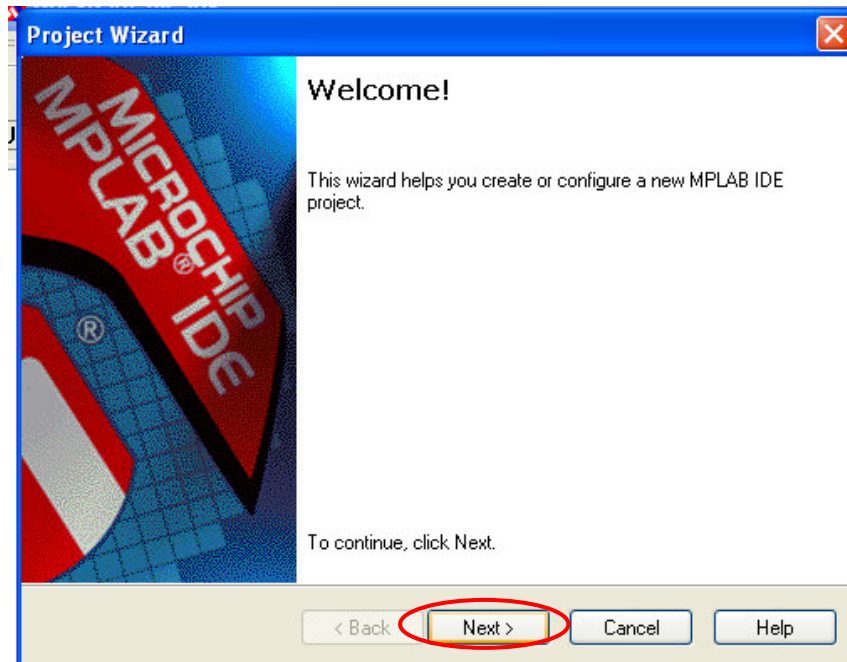
1. Double click on the icon installed on the desktop after installation or select *Start>Programs>Microchip> MPLAB IDE v8.20a>MPLAB IDE*. A screen will display the MPLAB IDE logo followed by the MPLAB IDE desktop as in diagram below.



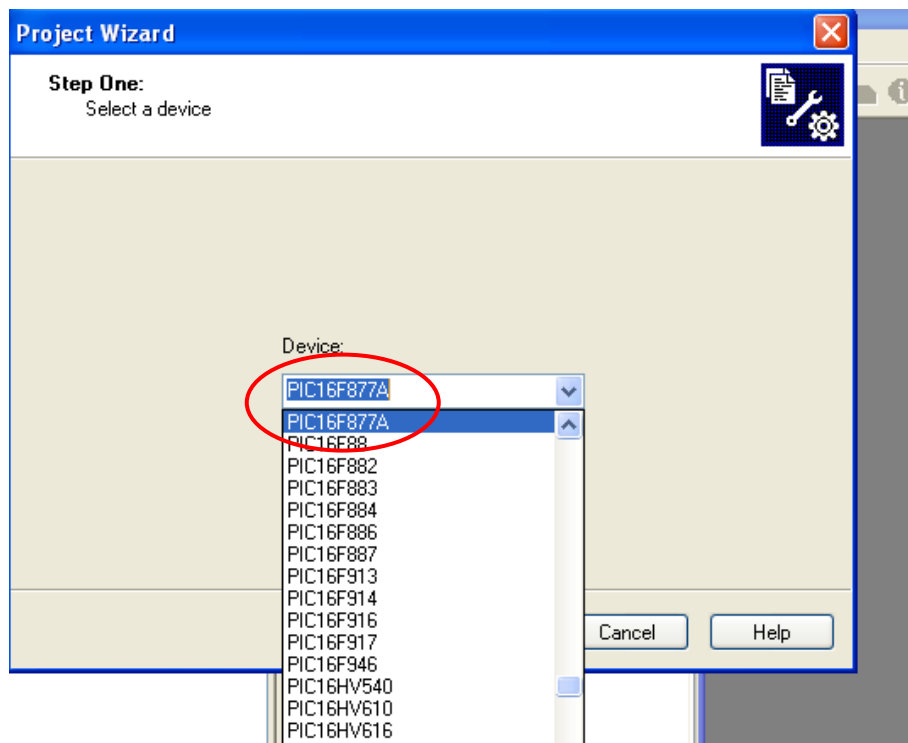
2. The next step is to create a project using the Project Wizard. A project is the way the files are organized to be compiled and assembled. We Choose *Project>Project Wizard*.



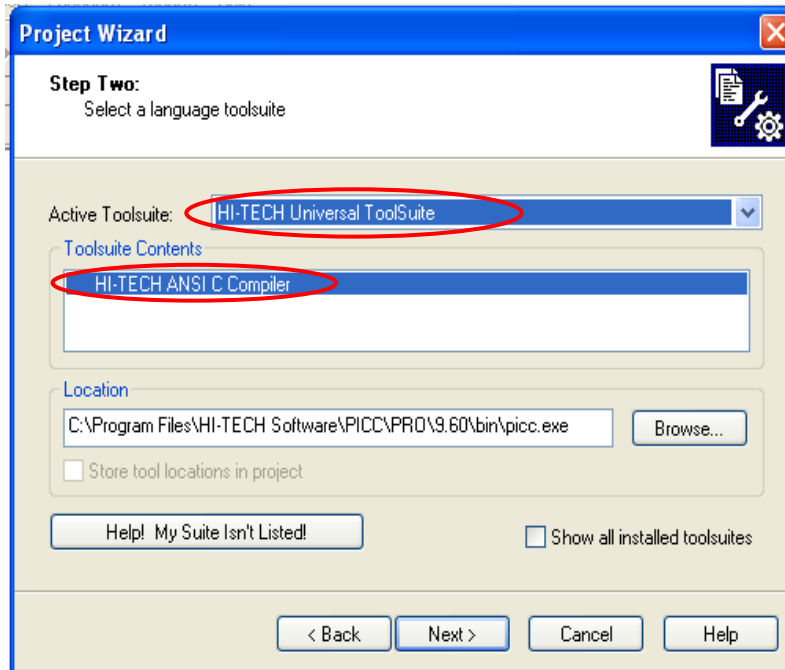
3. From the Welcome dialog, click on *Next* to proceed.



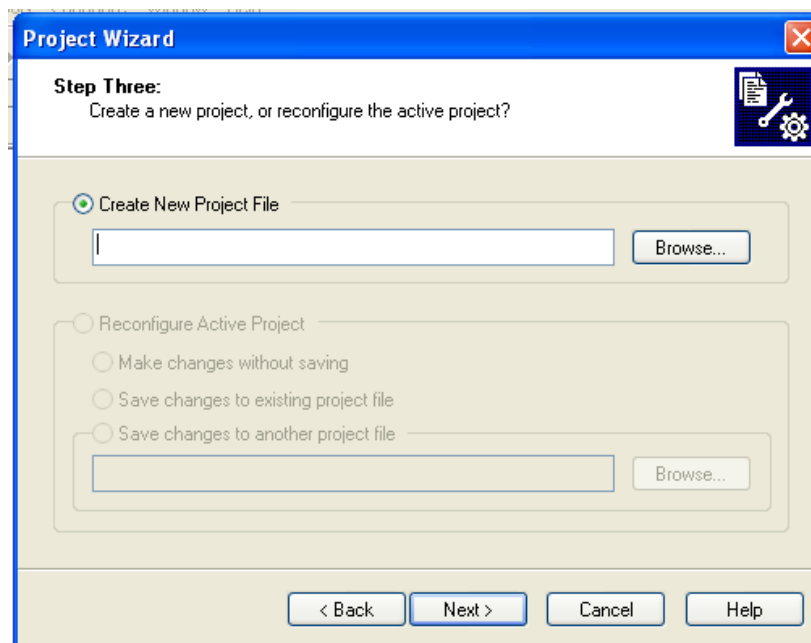
4. The next dialog (Step One) allows you to select the device. In this example, PIC16F877A was selected from the drop down menu. Click *Next*>.



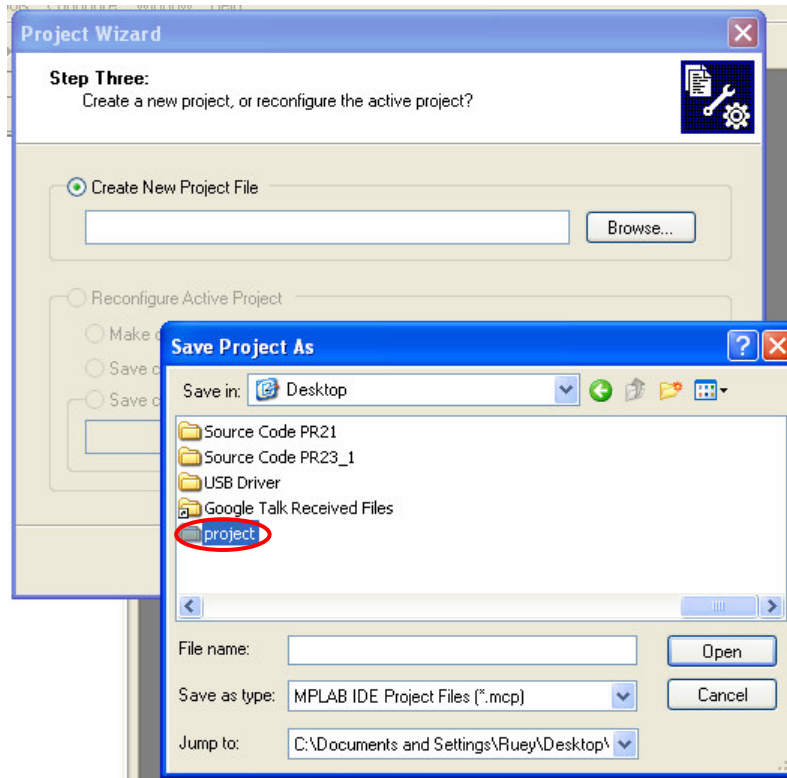
5. The next step of the Project Wizard is sets up the language tools that are used with this project. Select “HI-TECH Universal Toolsuite” in the Active Toolsuite list box. Then select “HI-TECH ANSI C Compiler” in the Toolsuite Contents box. When you are finished, click *Next*.



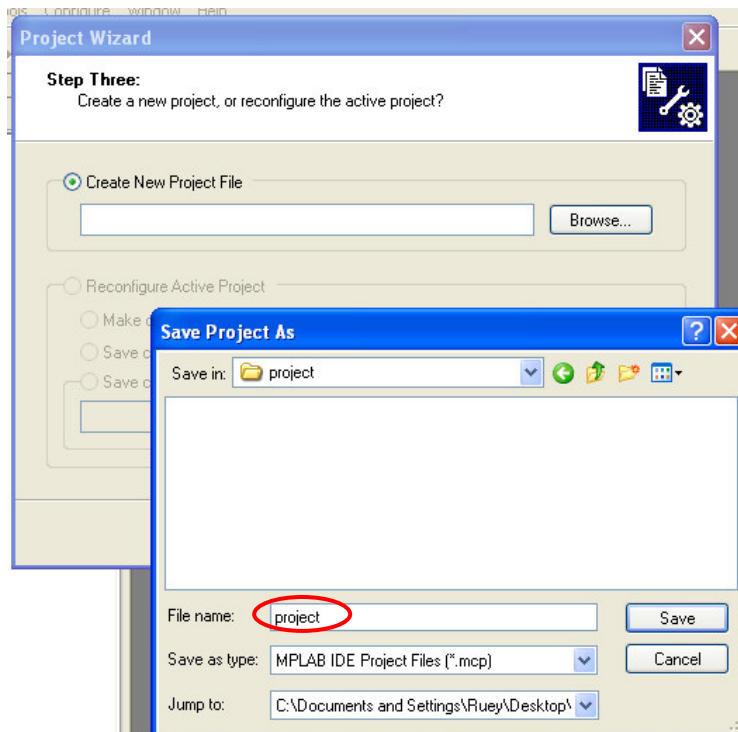
6. Step three of the project wizard allows user to create new project file.



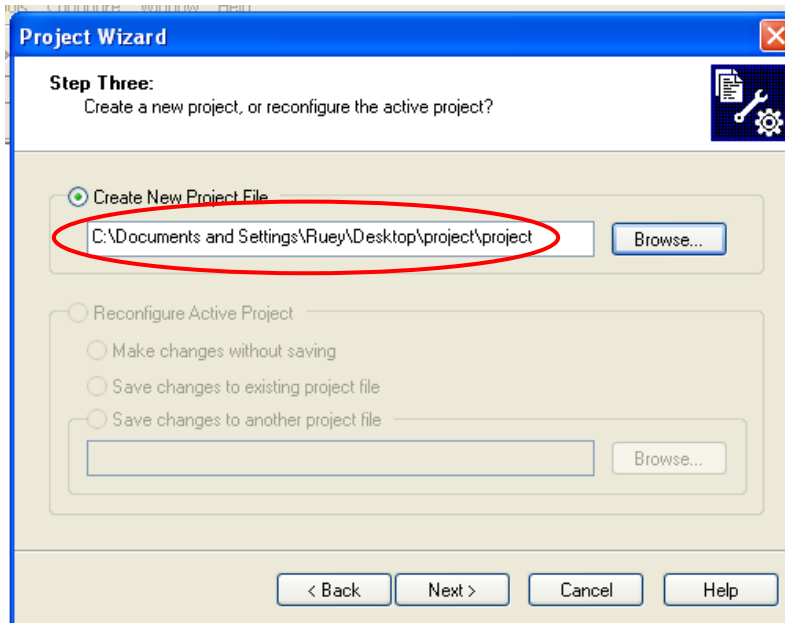
7. For an example, a folder named *Project* was first created at Desktop.



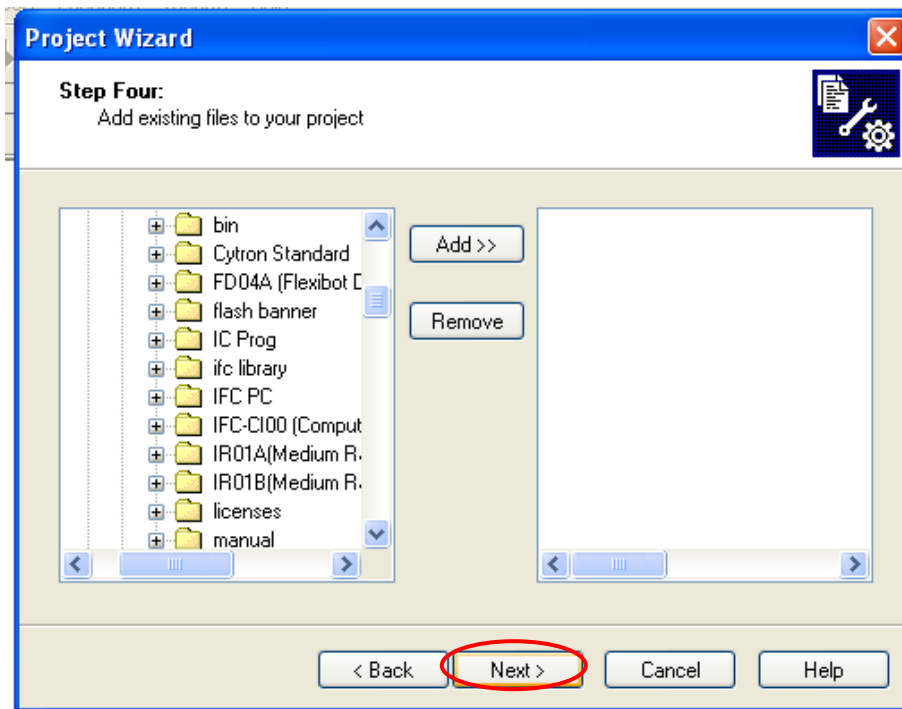
8. Then open the folder, *project*. Project named “*project*” can be created by typing the project name in the column for “File name”, and click *Save*.



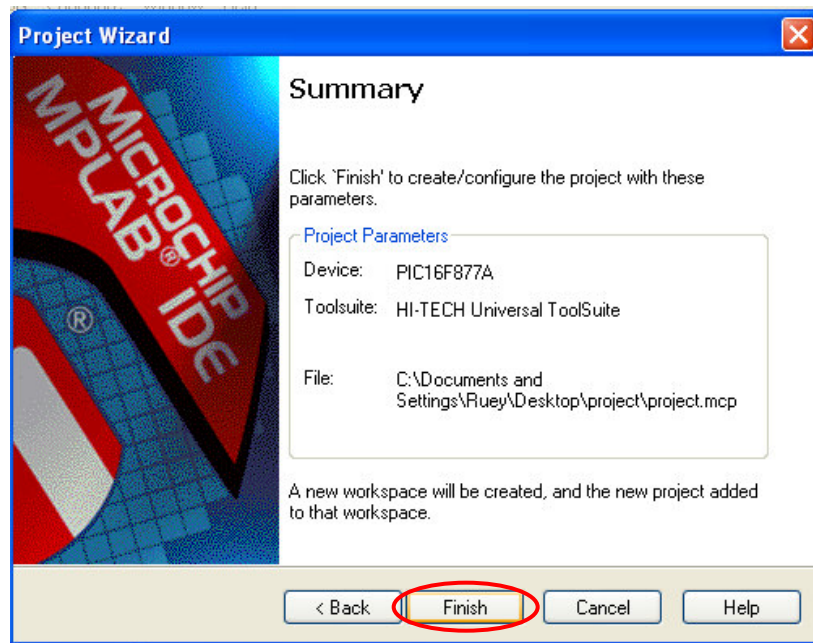
9. Diagram below shown the Project “project” had been created and the directory. Click *Next*>.



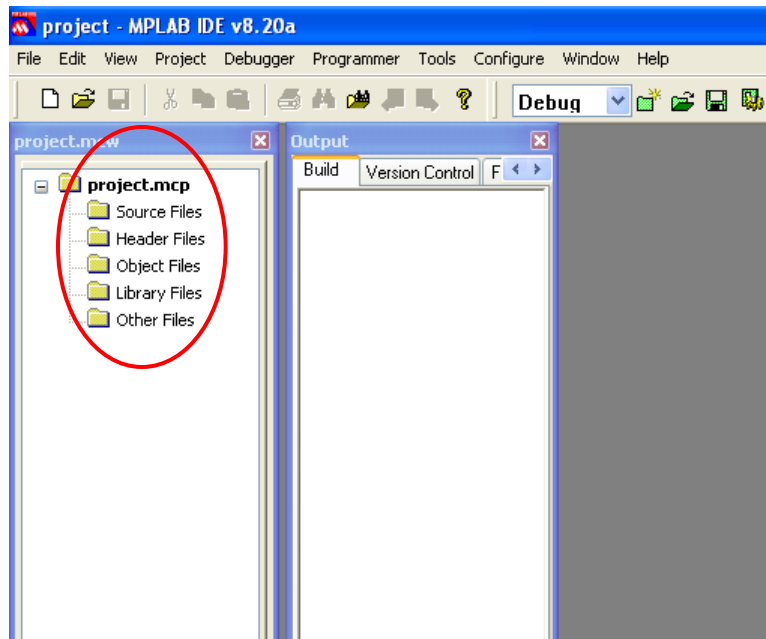
10. Step four of the project wizard allow user to add existing file to the project, however, for this example, no files will be added. Please click *Next*> to proceed.



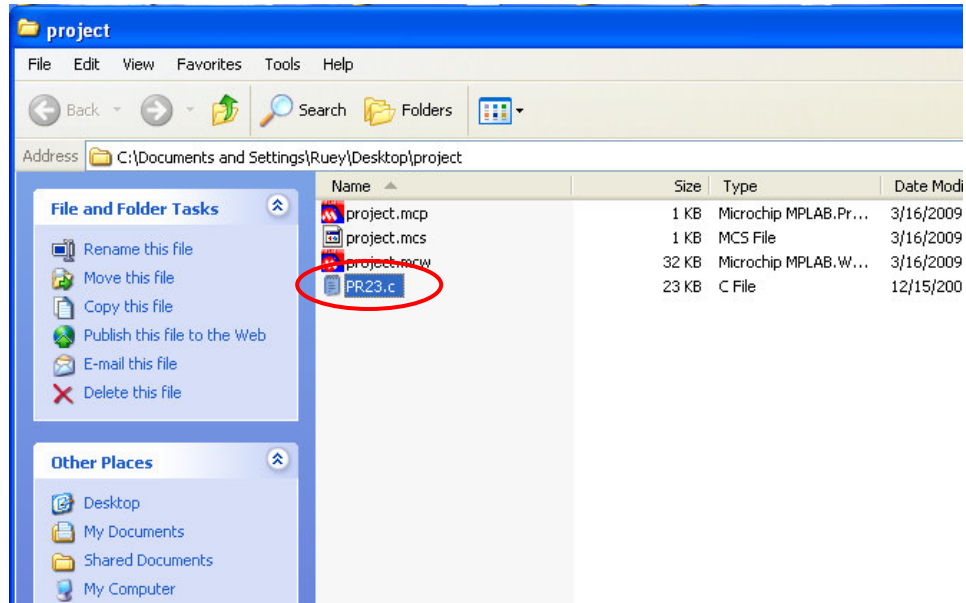
11. A summary will be shown at the end of project wizard, all the project parameters are shown. Please click *Finish* to exit from project wizard.



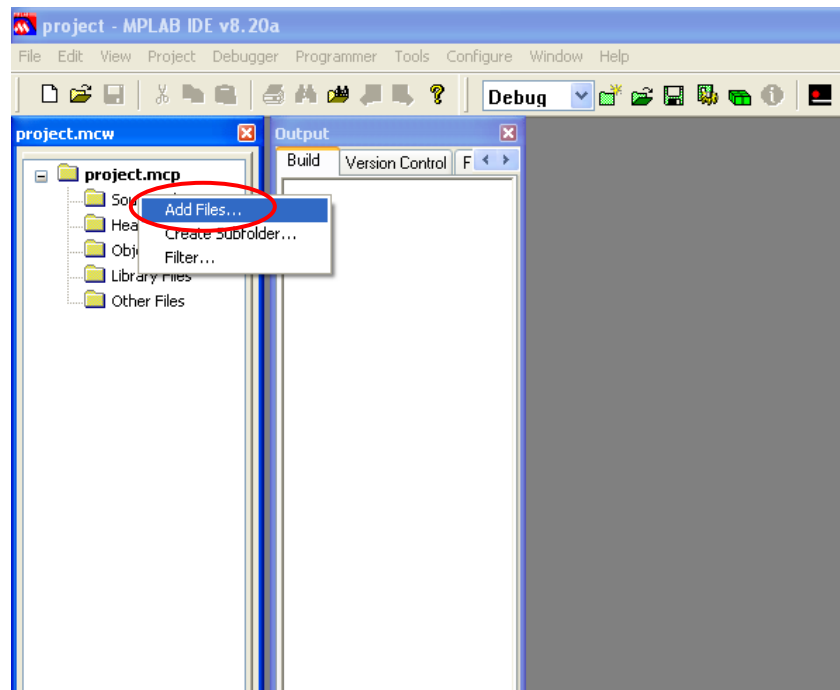
12. After pressing the *Finish* button, review the Project Window on the MPLAB IDE desktop. It should look like the diagram below. If the Project Window is not open, please select *View>Project*.



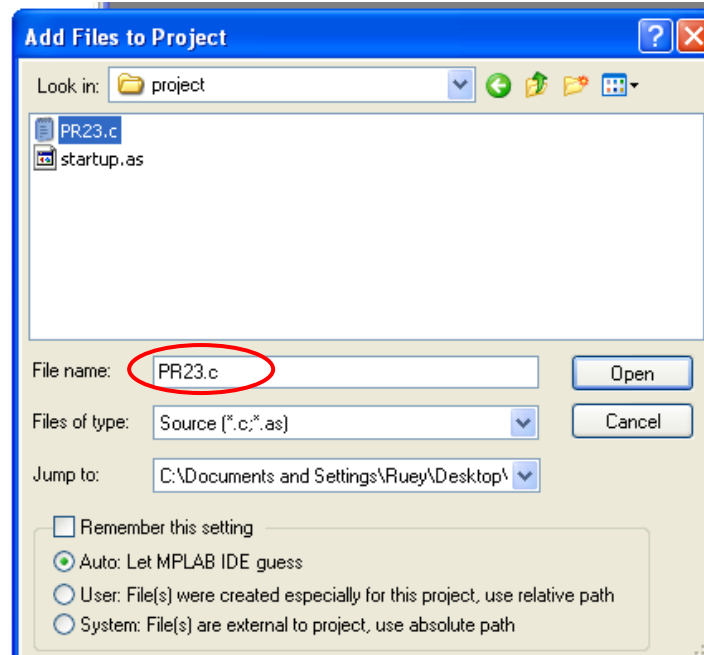
13. In this example, sample source code for Cytron DIY project, PR23 will be added to this project. The sample source code can be downloaded at <http://www.cytron.com.my/PR23.asp> . Diagram below show the sample source code, PR23.c being copied and pasted in the folder, *project*.



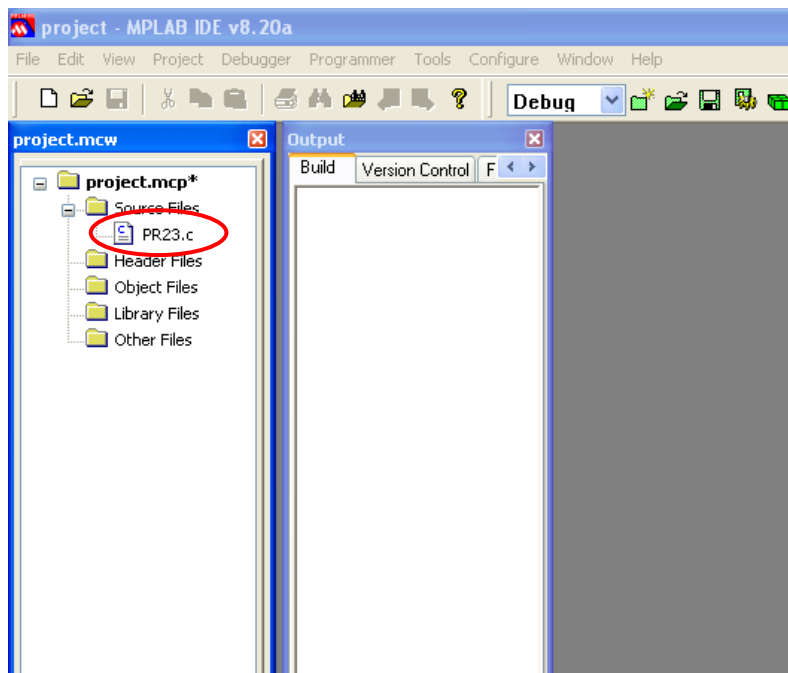
14. To add file in *Source Files*, right click on the *Source Files*, then click on *Add Files...*, diagram below shown the example for add file to *Source Files*



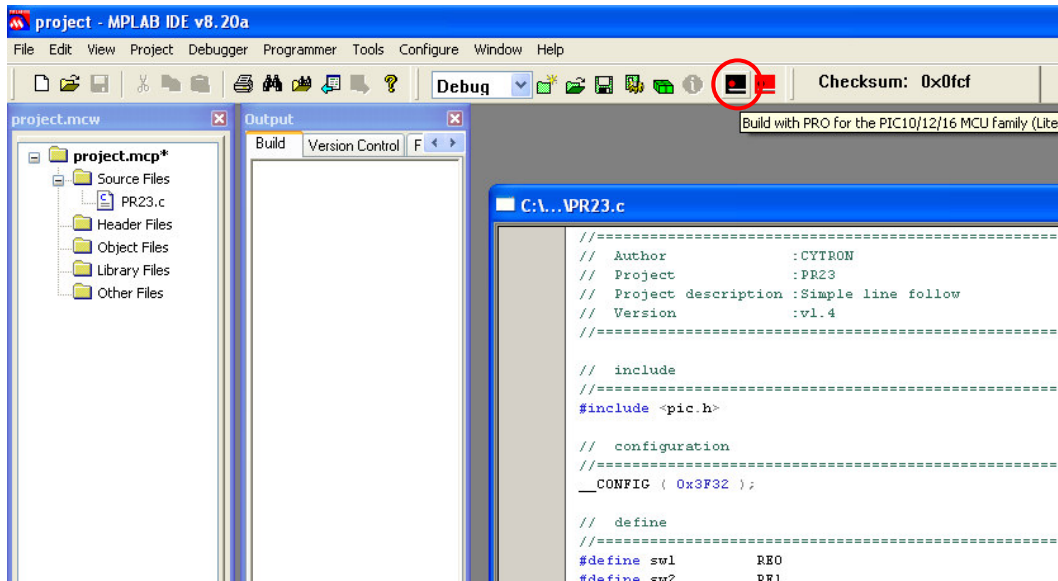
15. After clicking on *Add Files...*, a window pop out, do make sure the *Files of type* is *All Source Files (*.asm;*.c)*, then browse to the folder *Project* to add in “PR23.c”. User can select the file, “PR23.c”, and click open to add the file.



16. Diagram below shown PR23.c added to the project.



17. After added the source file, user can open PR23.c file in this workspace and try to compile it. Diagram below shown opened PR23.c file. To compile, user can go *Project>Build* or the build icon (in red circle) on menu bar as shown in diagram below.



18. After build success, a message *Build successful!* will appear in output window like shown in diagram below.

