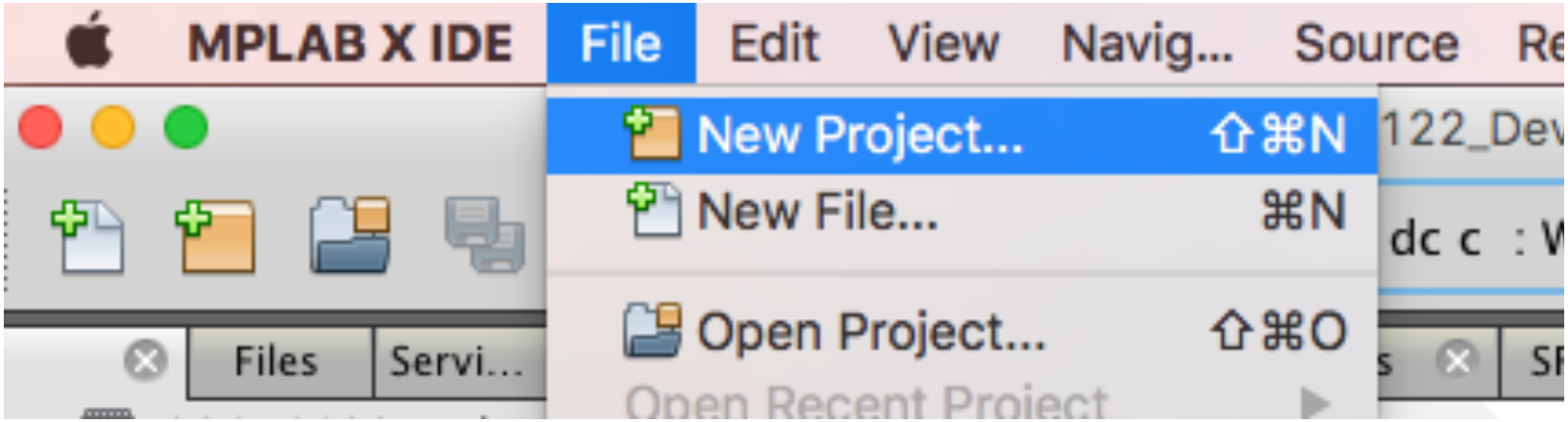
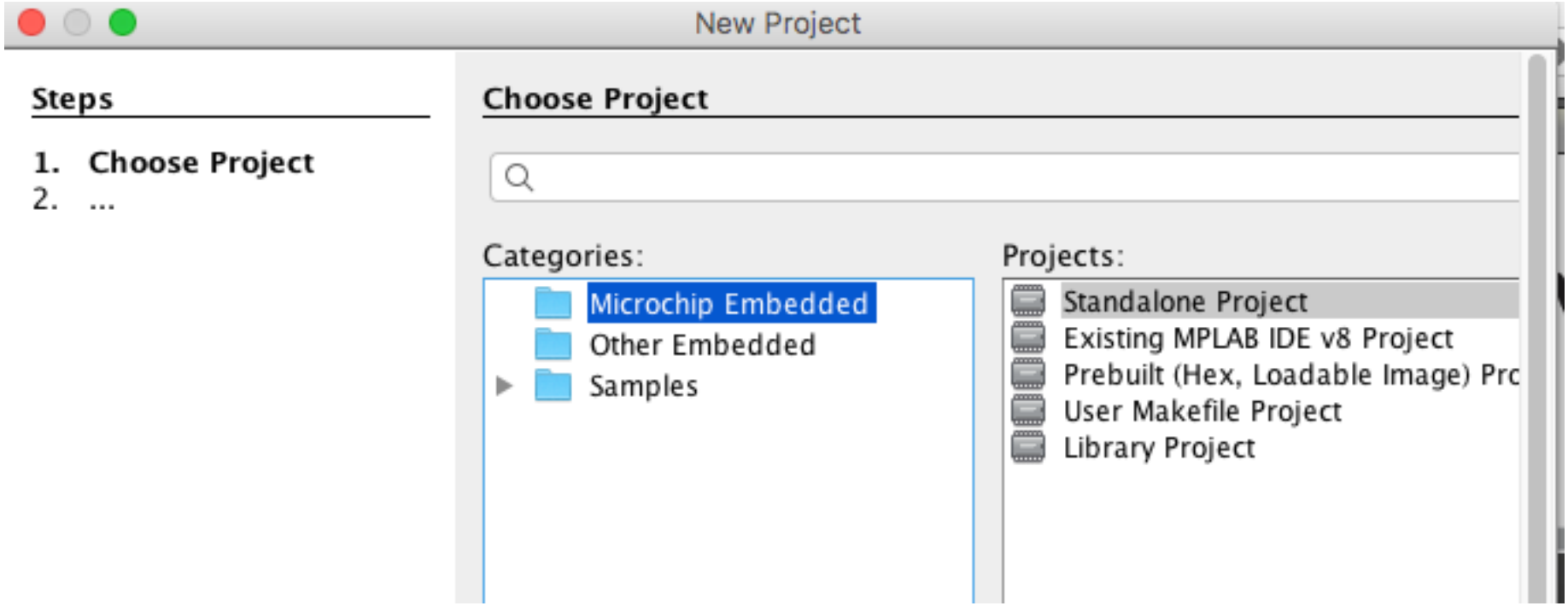
MPLAB-X IDE - First Program

Dr. L. K. Verma

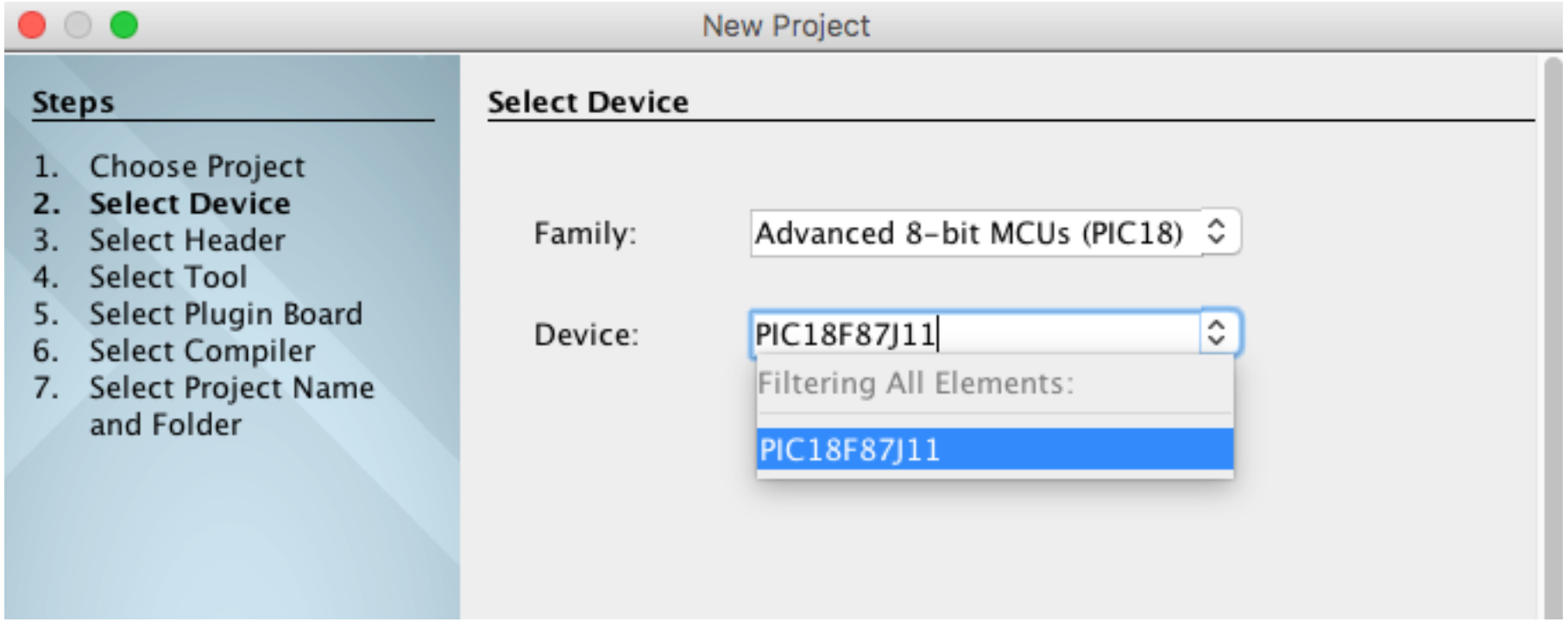
- Open MPLAB-X IDE
- Go to file, Select New Project



- Select the following

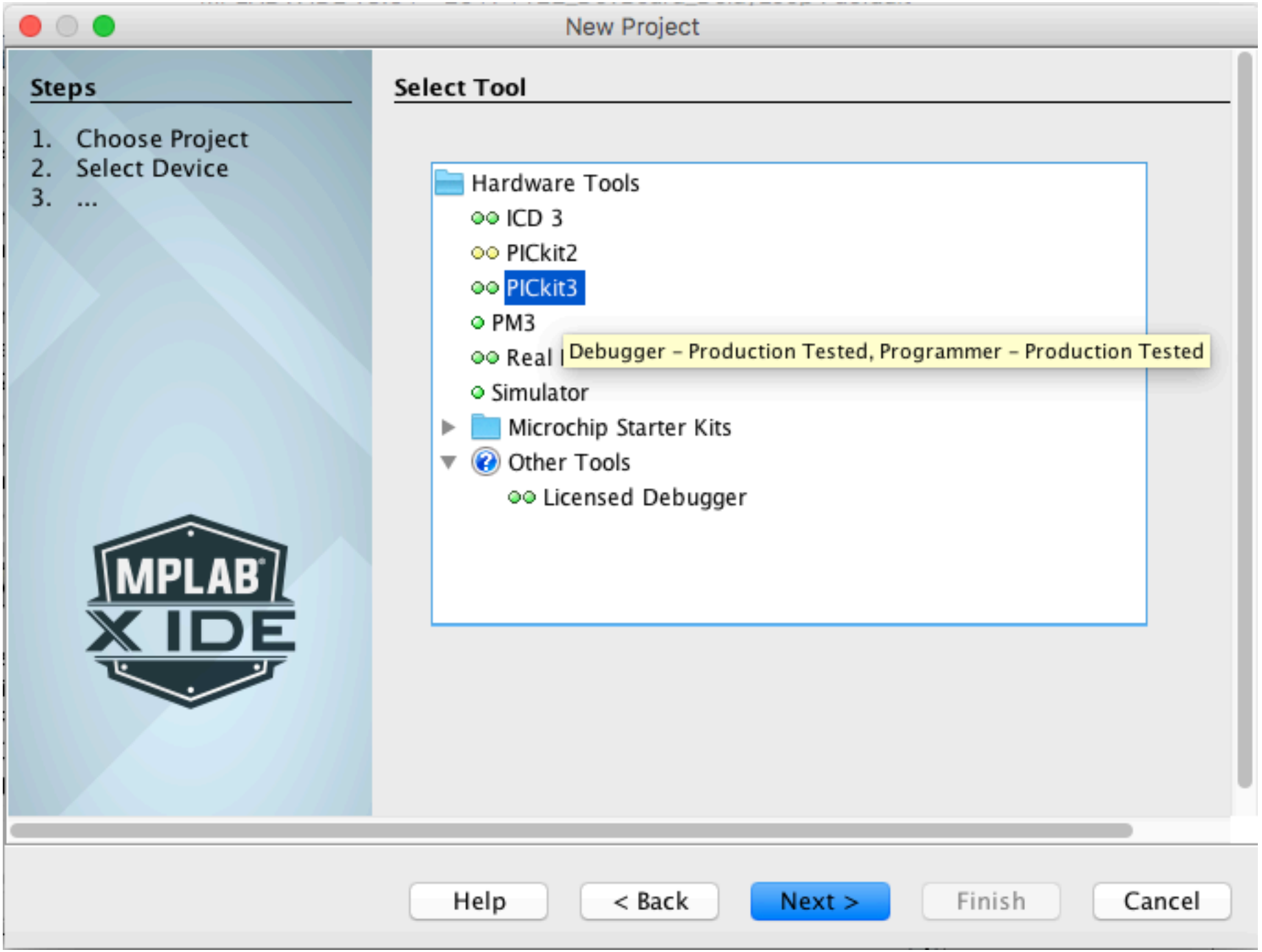


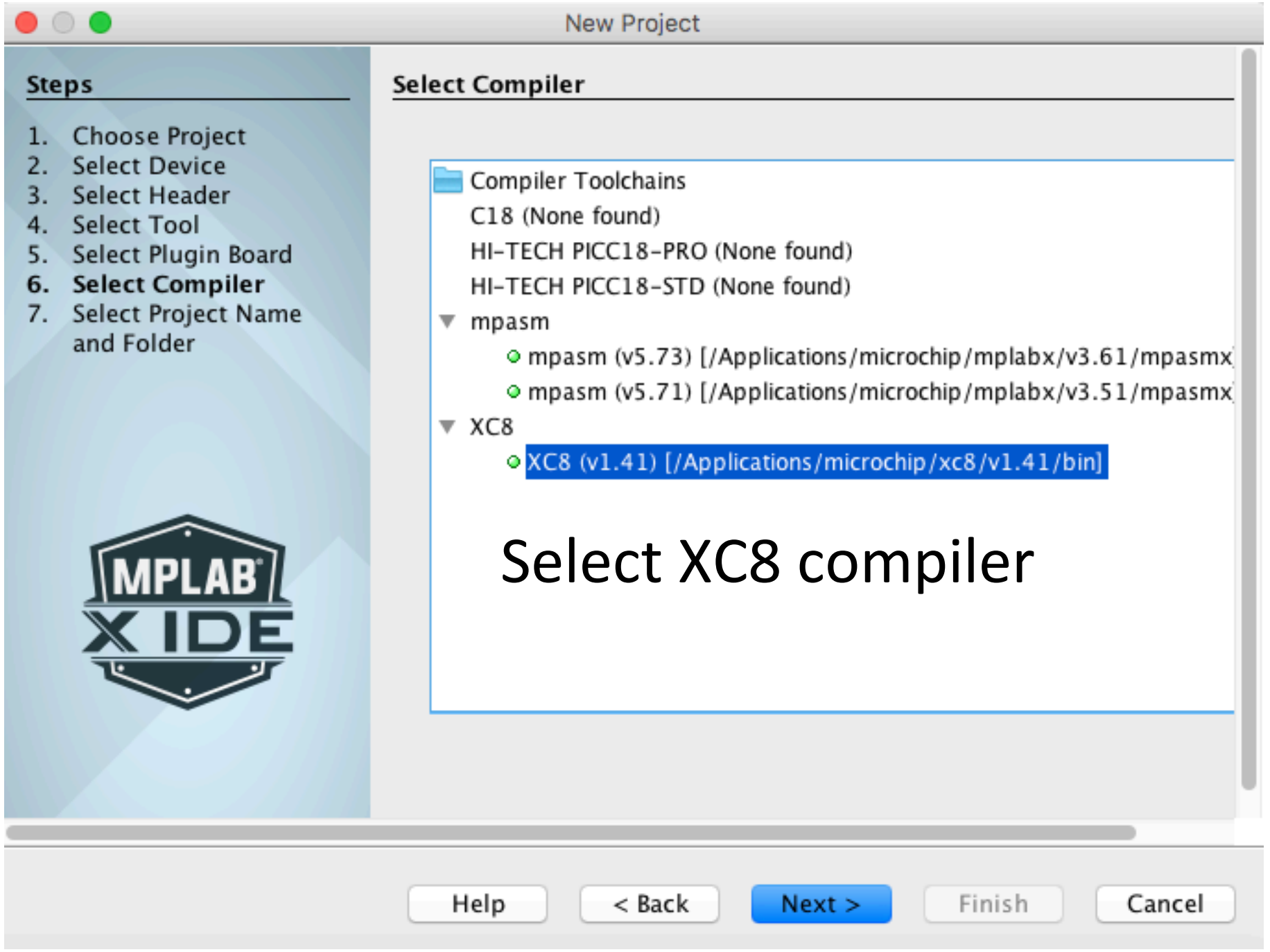
Select Family and Your PIC

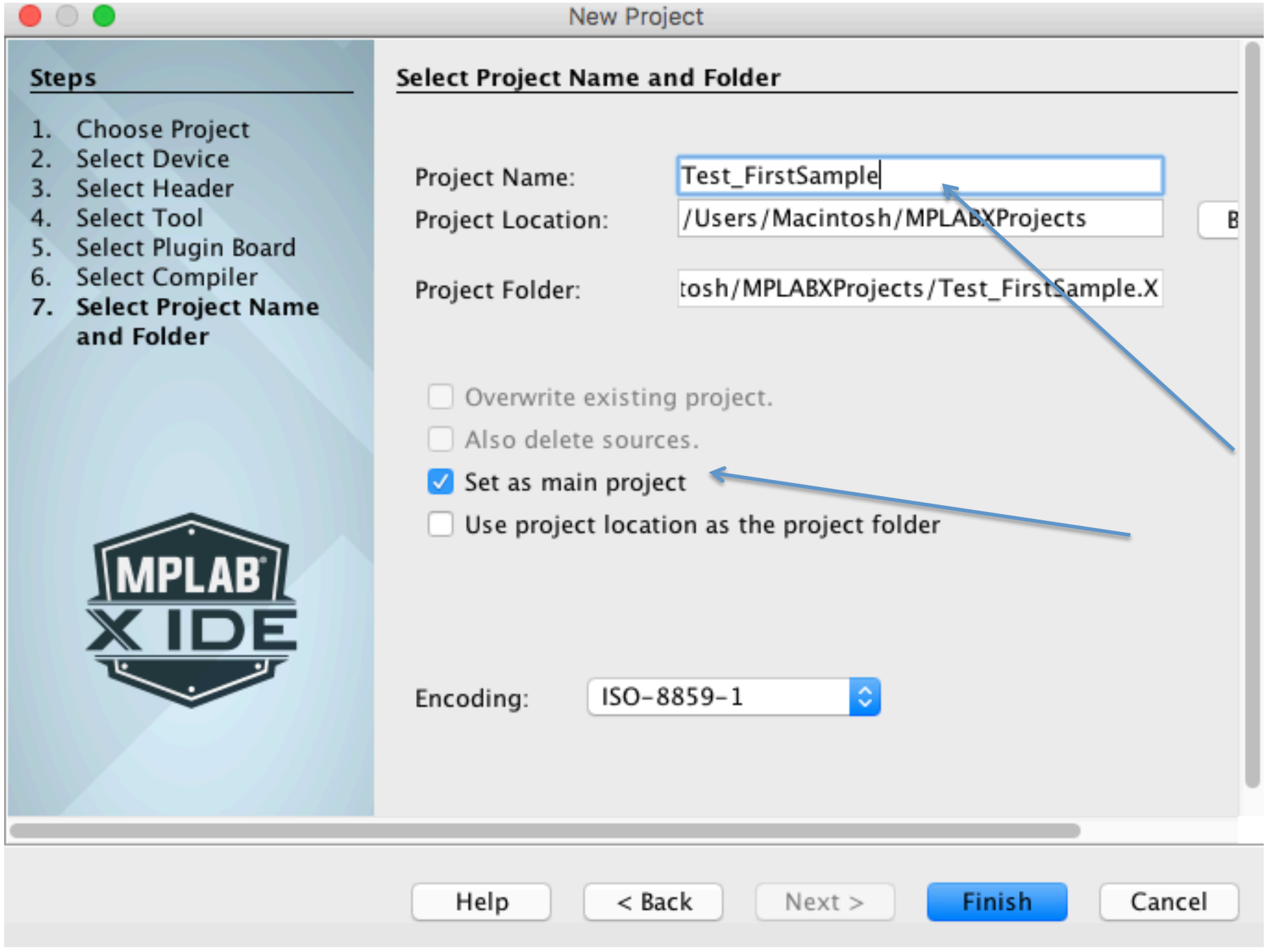


Select PIC18F87J11 for PIC EMGP Board
Select PIC18F4550 for team doing soldering work

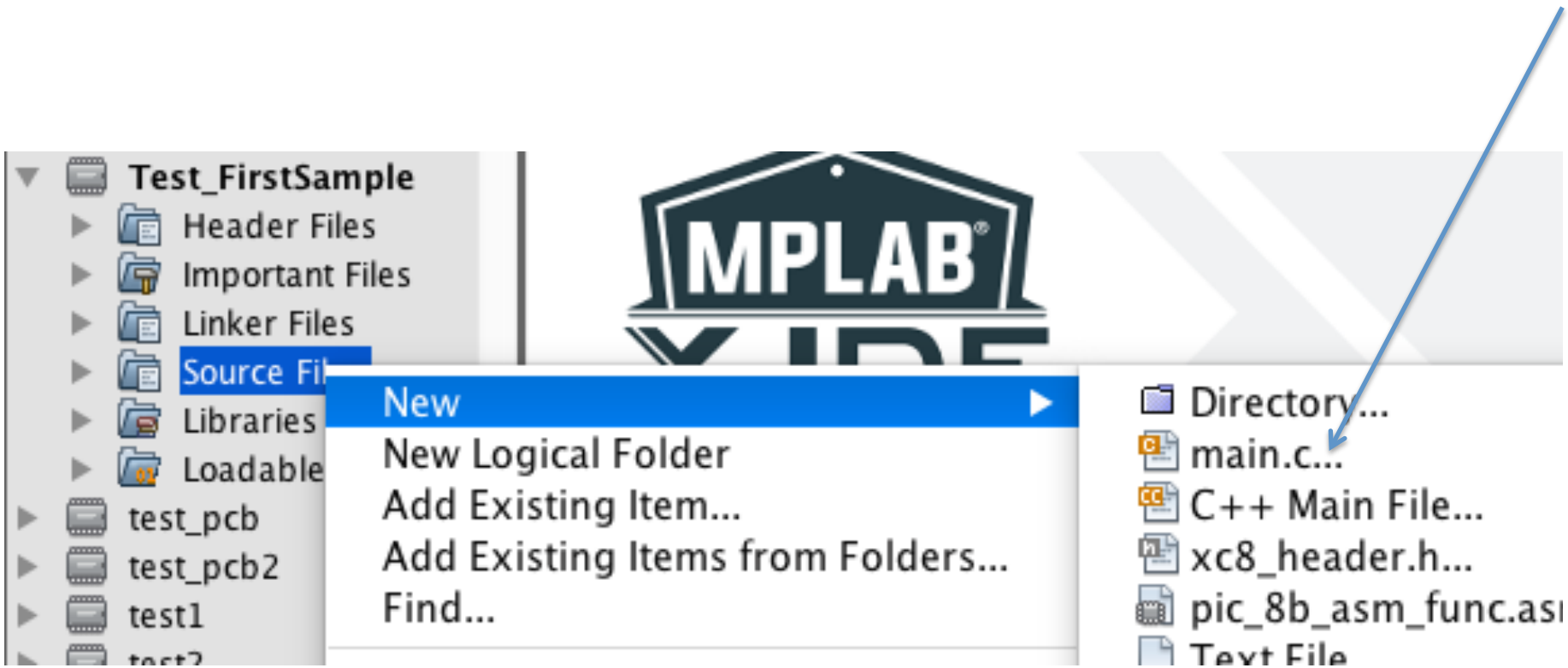
New Project
Steps
1. Choose Project
2. Select Device
3. Select Header
4. Select Tool
5. Select Plugin Board
6. Select Compiler
7. Select Project Name and Folder
MPLAB X IDE
Select Header
* OPTIONAL: Please select an associated debug heade...
Supported Debug Header:
None
A debug header is a device made especially for debugging. It provides extras pins and in some cases extra debugging capabilities.
Help
< Back
Next >
Finish
Cancel

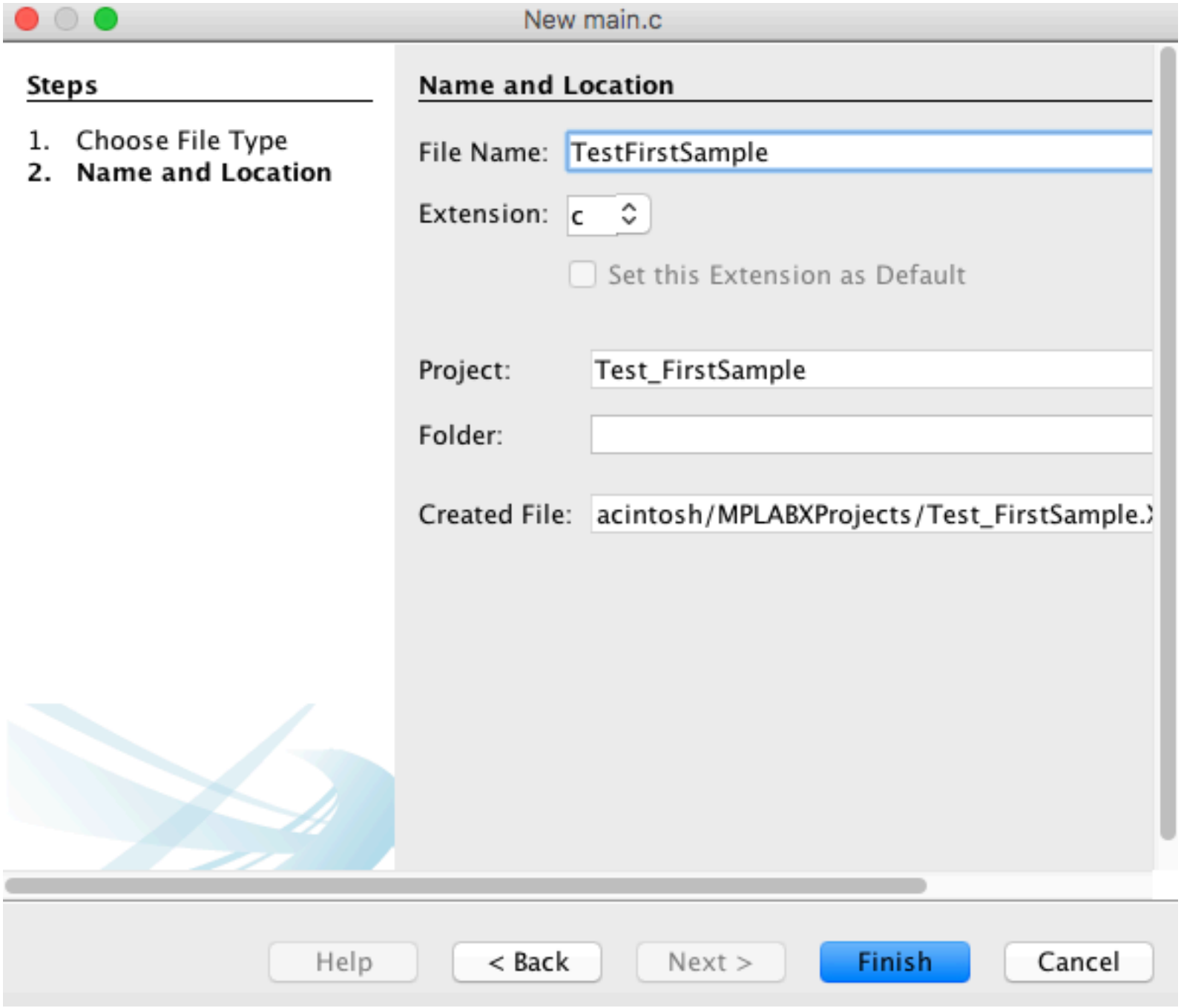

New Project
Steps
1. Choose Project
2. Select Device
3. ...
MPLAB
X IDE
Select Tool
Hardware Tools
ICD 3
PICkit2
PICkit3
PM3
Real
Debugger – Production Tested, Programmer – Production Tested
Simulator
Microchip Starter Kits
Other Tools
Licensed Debugger
Help
< Back
Next >
Finish
Cancel


New Project
Steps
1. Choose Project
2. Select Device
3. Select Header
4. Select Tool
5. Select Plugin Board
6. Select Compiler
7. Select Project Name and Folder
Select Compiler
Compiler Toolchains
C18 (None found)
HI-TECH PICC18-PRO (None found)
HI-TECH PICC18-STD (None found)
mpasm
mpasm (v5.73) [/Applications/microchip/mplabx/v3.61/mpasmx
mpasm (v5.71) [/Applications/microchip/mplabx/v3.51/mpasmx
XC8
XC8 (v1.41) [/Applications/microchip/xc8/v1.41/bin]
Select XC8 compiler
MPLAB X IDE
Help
< Back
Next >
Finish
Cancel


New Project
Steps
1. Choose Project
2. Select Device
3. Select Header
4. Select Tool
5. Select Plugin Board
6. Select Compiler
7. Select Project Name and Folder
MPLAB
X IDE
Select Project Name and Folder
Project Name:
Test_FirstSample
Project Location:
/Users/Macintosh/MPLABXProjects
Project Folder:
tosh/MPLABXProjects/Test_FirstSample.X
Overwrite existing project.
Also delete sources.
Set as main project
Use project location as the project folder
Encoding:
ISO-8859-1
Help
< Back
Next >
Finish
Cancel

Add a Source File




New main.c
Steps
1. Choose File Type
2. Name and Location
Name and Location
File Name: TestFirstSample
Extension: c
Set this Extension as Default
Project: Test_FirstSample
Folder:
Created File: acintosh/MPLABXProjects/Test_FirstSample.X
Help
< Back
Next >
Finish
Cancel

Add following code to Source file

```
#include <xc.h>
#include <pic18f87j11.h>

void main(void){
   PORTD = 0x00;
   TRISD = 0x00;

   while(1){
      LATD = 0xFF;
   }
}
```

// PortD LED should turn ON