

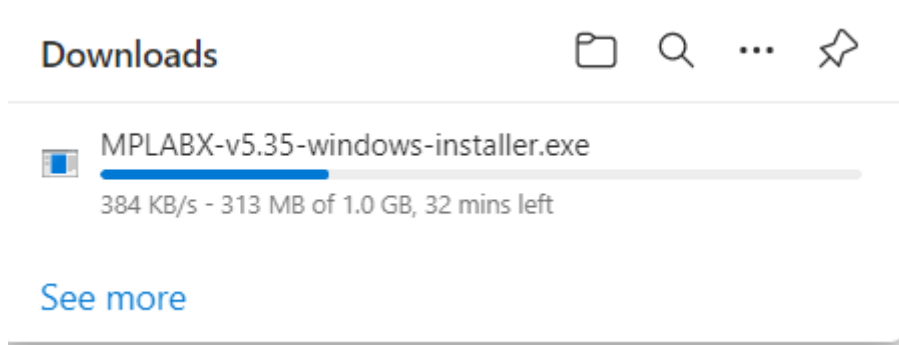
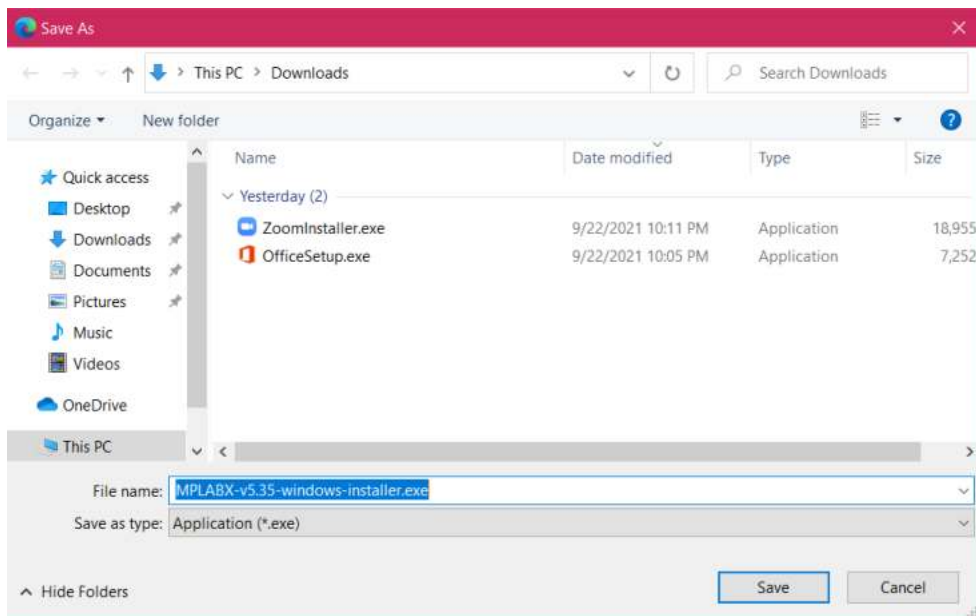
# MPLAB setup Guide

## CPEG330L - Microprocessors & Interfacing Lab.

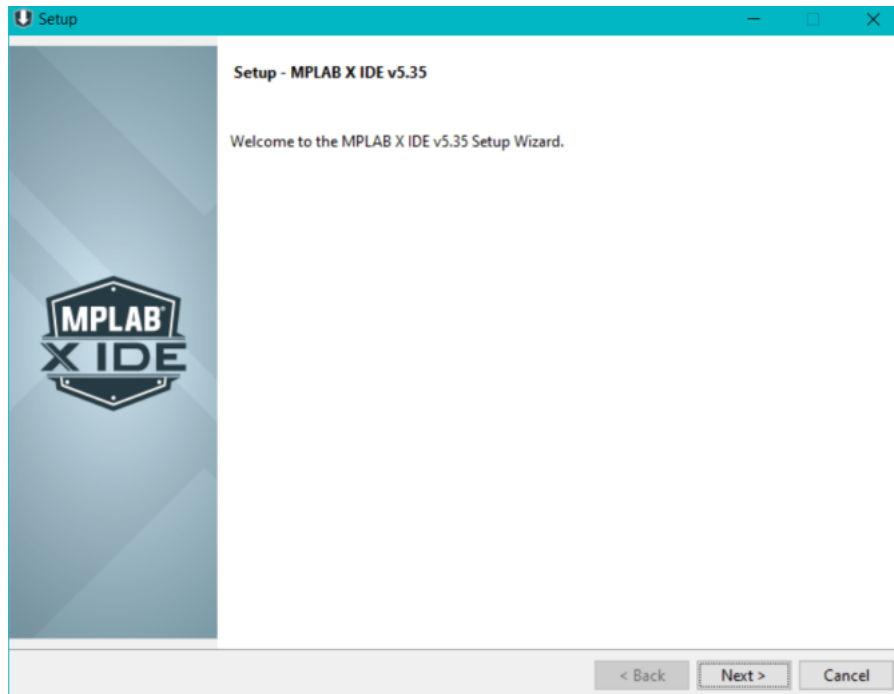
MPLABX IDE is the application used during the laboratory. Use the following links to download the files related to your computer Operating System

- [Windows \(x86/x64\)](#)
- [MacOS \(10.X\)](#)

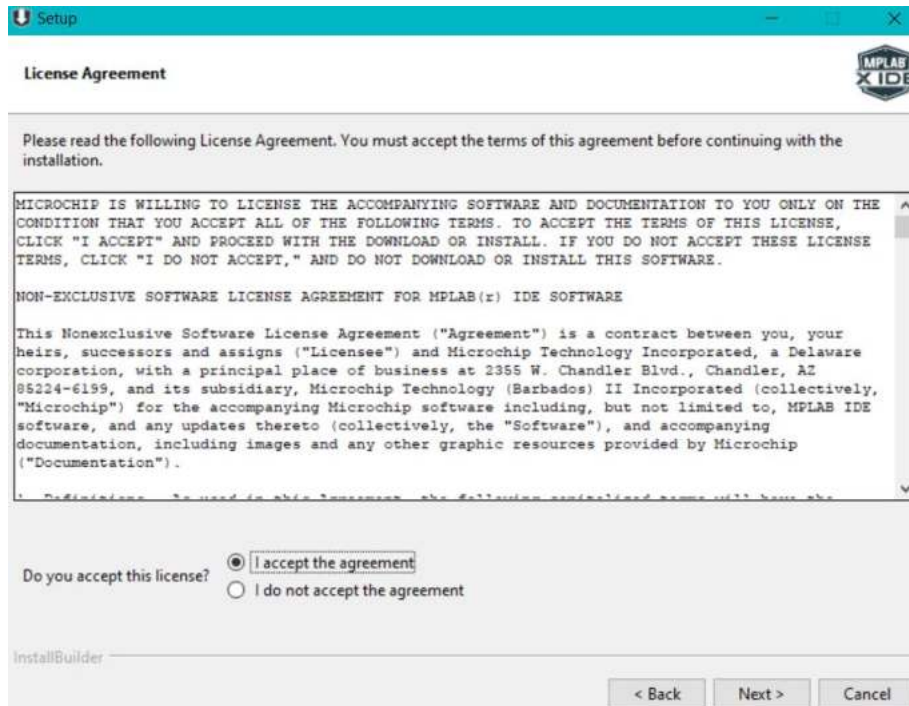
1- Save the file into your computer and wait until the download is completed.



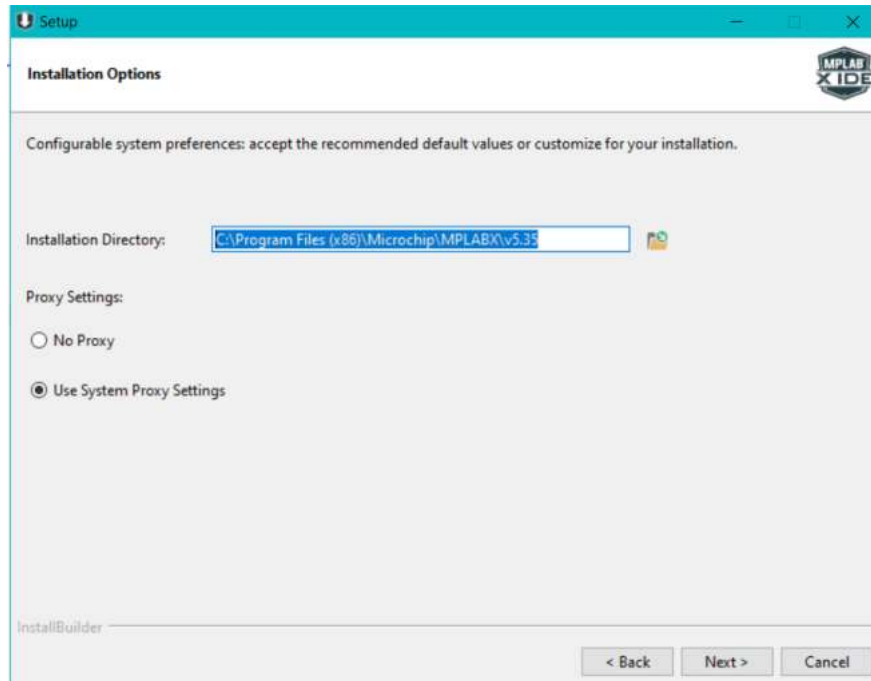
- 2- Once the file is saved into your computer. Click on the file to start the installation of the application into your computer. Click “Next” in the following screen to start the installation:



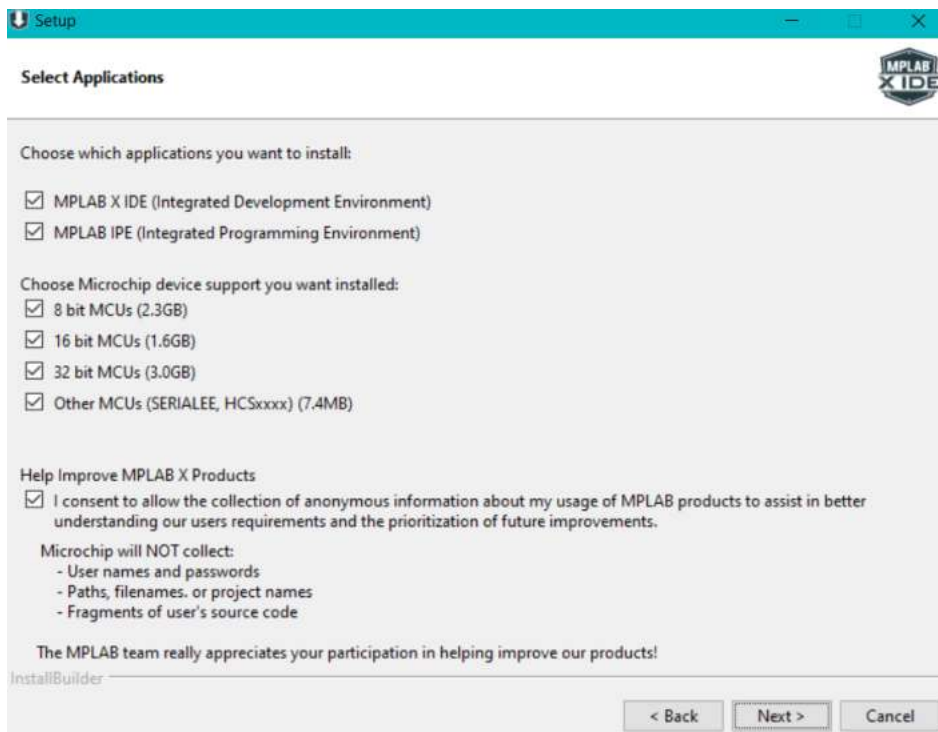
- 3- Accept the licenses terms and conditions, then click “Next”:



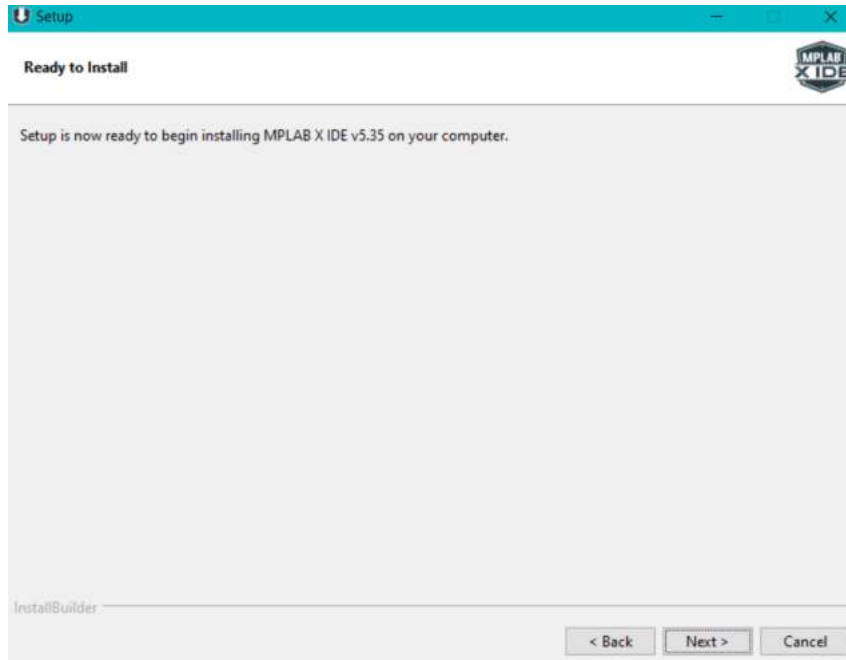
- 4- The program will install in your Program Files (x86) Directory, Make sure that “Use System Proxy Setting is selected then click “Next”



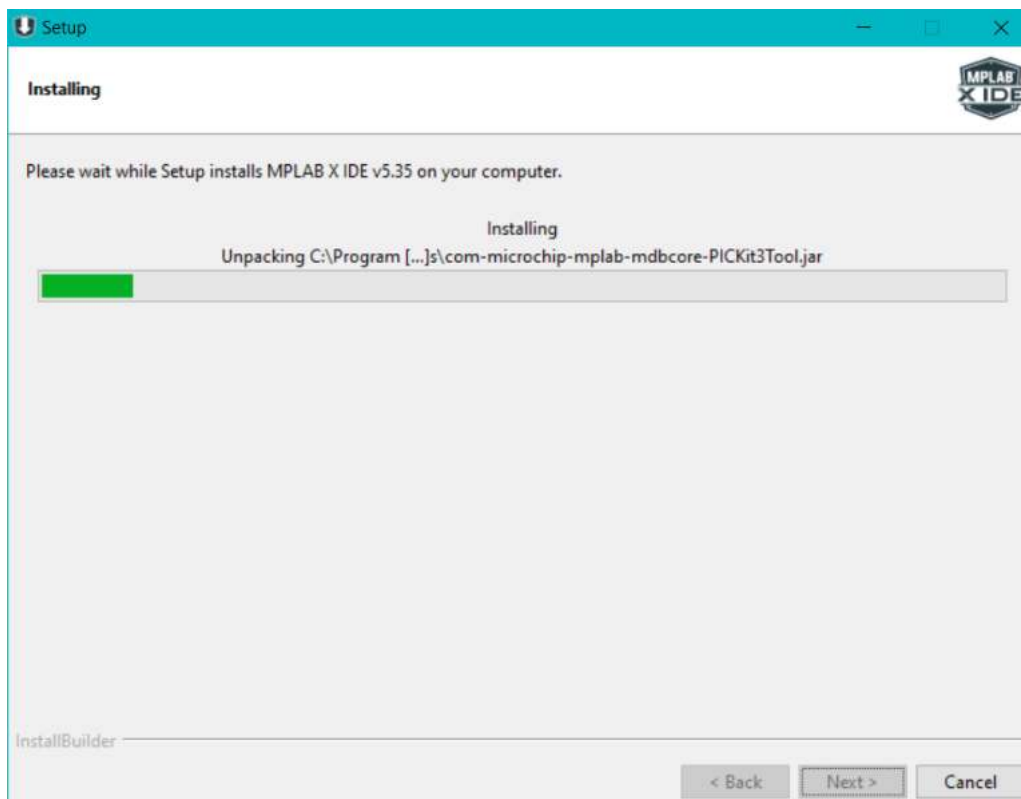
- 5- In the following screen, keep the checked box the same. You can remove the last checked box if you want. Then, click on “Next”:



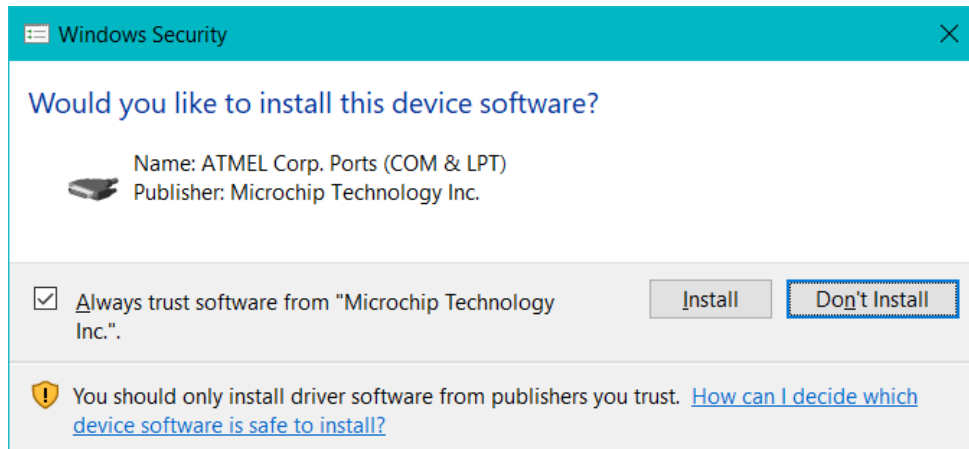
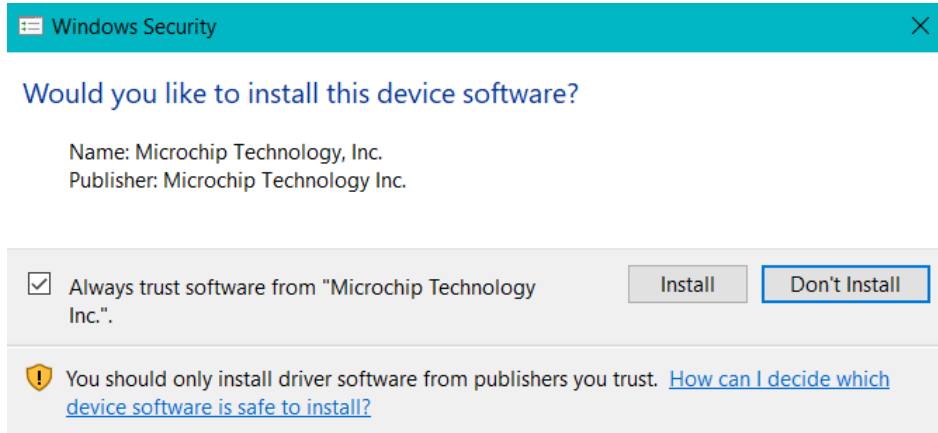
- 6- The following screen will appear to indicate the installation process will start. Click on “Next” to allow the program to install.



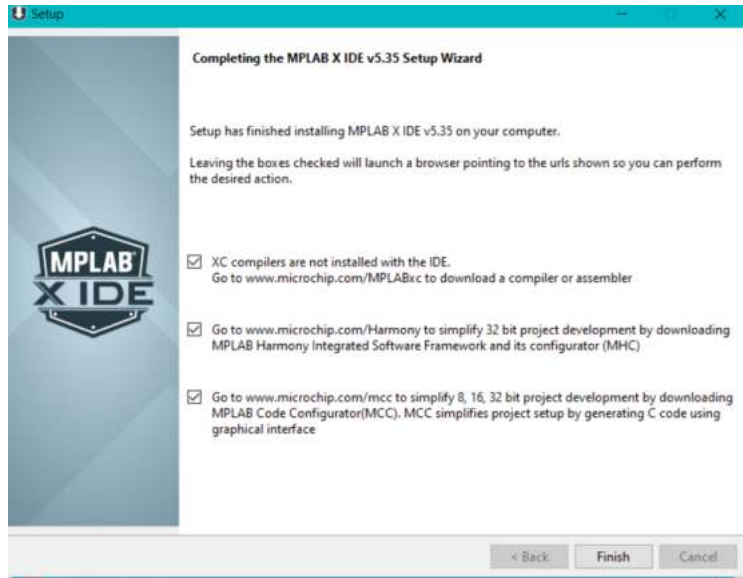
- 7- Wait until the program finishes the installation seen in the following window.



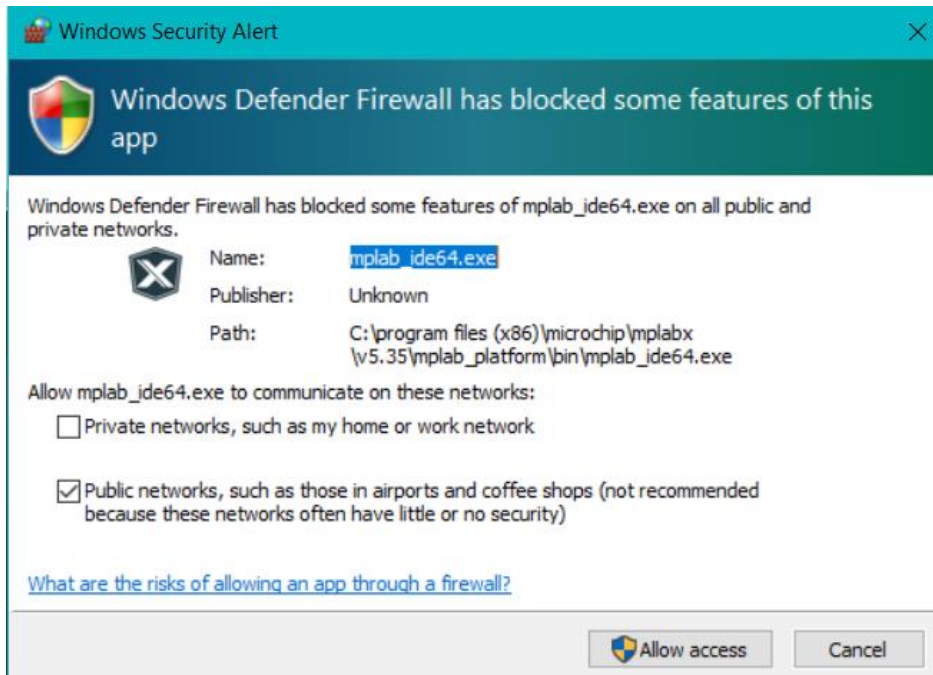
8- A few Add-ins must be installed along with the application. Make sure to click “Install” in any of the following windows.



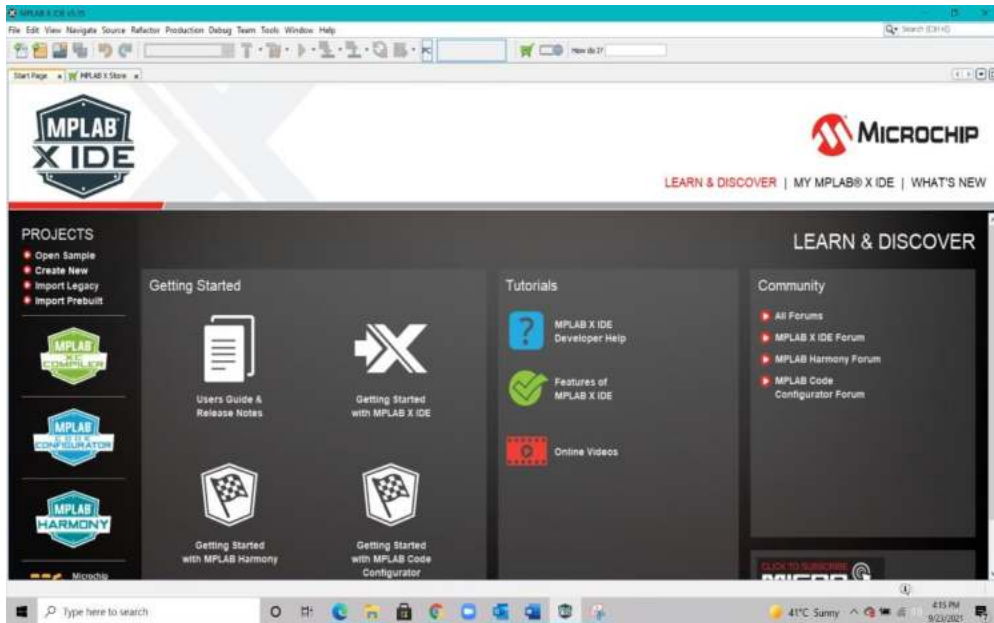
9- Now the application is ready to be used. Click “Finish” in the following screen to complete the installation setup. A few web pages may open on your computer, just close the windows.



Open the MPLAB Icon on your Desktop, and Click “Allow Access” in the following screen:



Now you have MPLAB set up on your device.



10- After setting up the MPLAB on your device. You need to add a C compiler to the application from the following website based on your Operating System (windows/MacOS). Go to the **“Compiler Downloads”** from the following screen. Make sure to choose the compiler **XC8**.

<https://www.microchip.com/en-us/development-tools-tools-and-software/mplab-xc-compilers#Downloads>

## Downloads, Documentation and Other Resources

Documentation **Compiler Downloads** Functional Safety Compiler Downloads Compiler FAQs

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### Documentation

- Installing and Licensing MPLAB XC C Compilers
- MPLAB XC HPA Renewal Instructions
- MPLAB XC License Server Manual
- Setting up the Site Licenses
- Quick Guide to Microchip Development Tools

### XC8 Documents

- MPLAB XC8 C Compiler User Guide for PIC MCUs
- MPLAB XC8 C Compiler Legacy User Guide
- MPLAB XC8 C Compiler User's Guide for AVR MCUs
- MPLAB XC8 User's Guide for Embedded Engineers Code Example
- MPLAB XC8 User's Guide for Embedded Engineers
- MPLAB XC8 PIC Assembler User's Guide

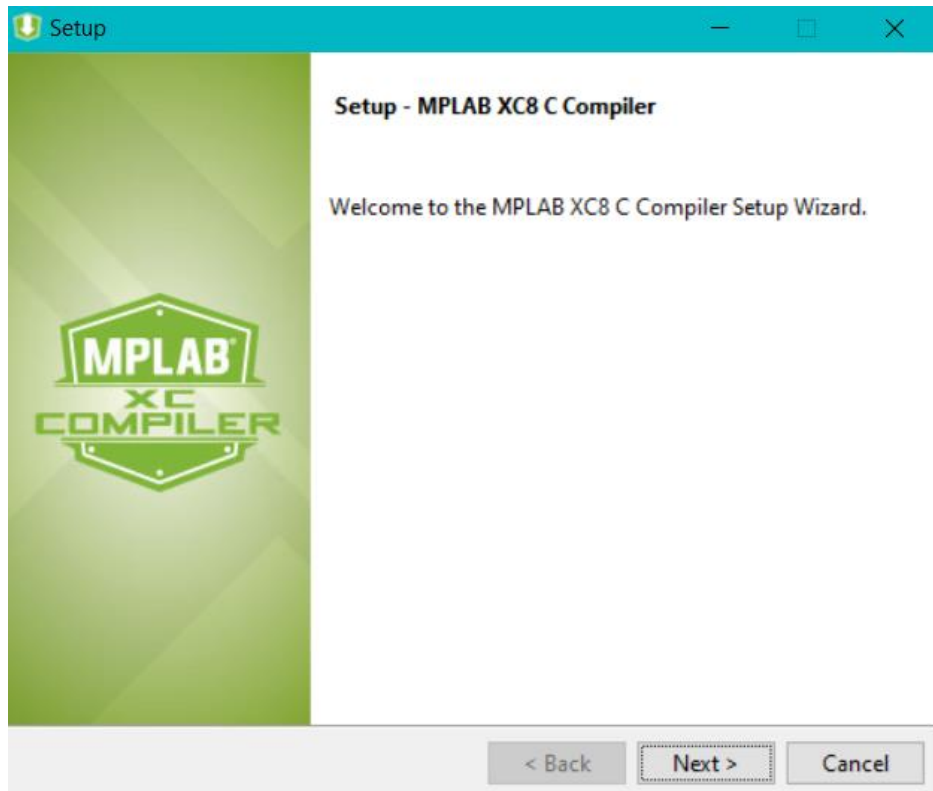
Title	Date Published	Size
<b>Windows (x86/x64)</b>		
MPLAB® XC8 Compiler v2.32 SHA-256: 4e38738bc2e19f27d4eb7469859a634951e4806cd8a5a8028459b2804d7455a4	2/18/2021	68.1 MB
MPLAB XC16 Compiler v1.70 SHA-256: 0a04017197d3086e652de08d74fa0d32f4cf7dc326a6faf70732833e938bd5c9	3/26/2021	102.5 MB
MPLAB XC32/32++ Compiler v3.01 SHA-256: 7f55ae8facb770de92f115fdd28b7cab81d12440efd1a8301dfa578f25b6de7a	6/2/2021	389.7 MB
<b>Mac (10.X)</b>		
MPLAB XC8 Compiler v2.32 SHA-256: 651919702d7e68416908983784971c83c2e816aaf0735dbcd587f556bdcee904	2/18/2021	64.4 MB
MPLAB XC16 Compiler v1.70 SHA-256: b8c2b5cbab87c0947c0513c8a66648c8c4d4626107284c208e62ec19600ebb65	3/26/2021	101.6 MB
MPLAB XC32/32++ Compiler v3.01 SHA-256: f8ef09babfd238f155fd5409ab7923f140cb4ea55a1302d81d5f8e5d8157f78c	6/2/2021	399.6 MB

- 11- After the executable file is downloaded from the website. Click on the file to complete the installation.

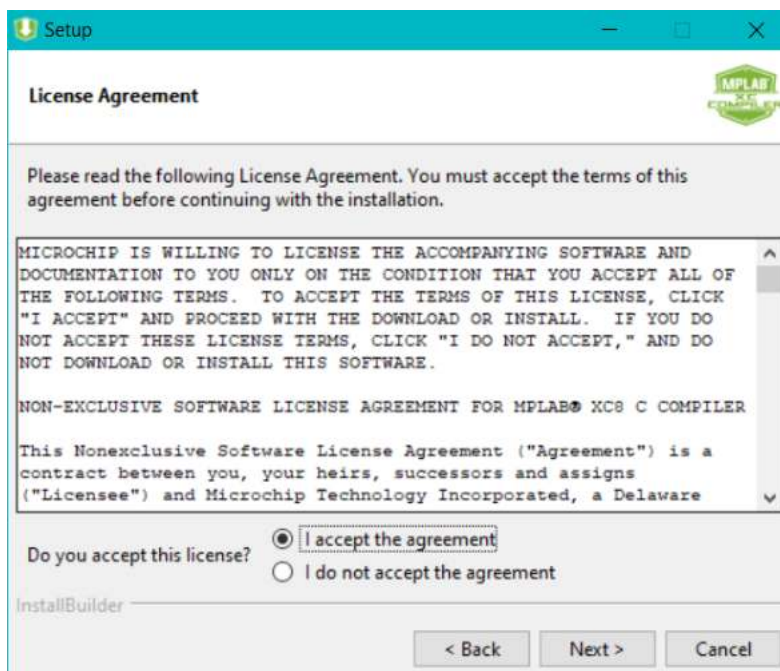
Statement.



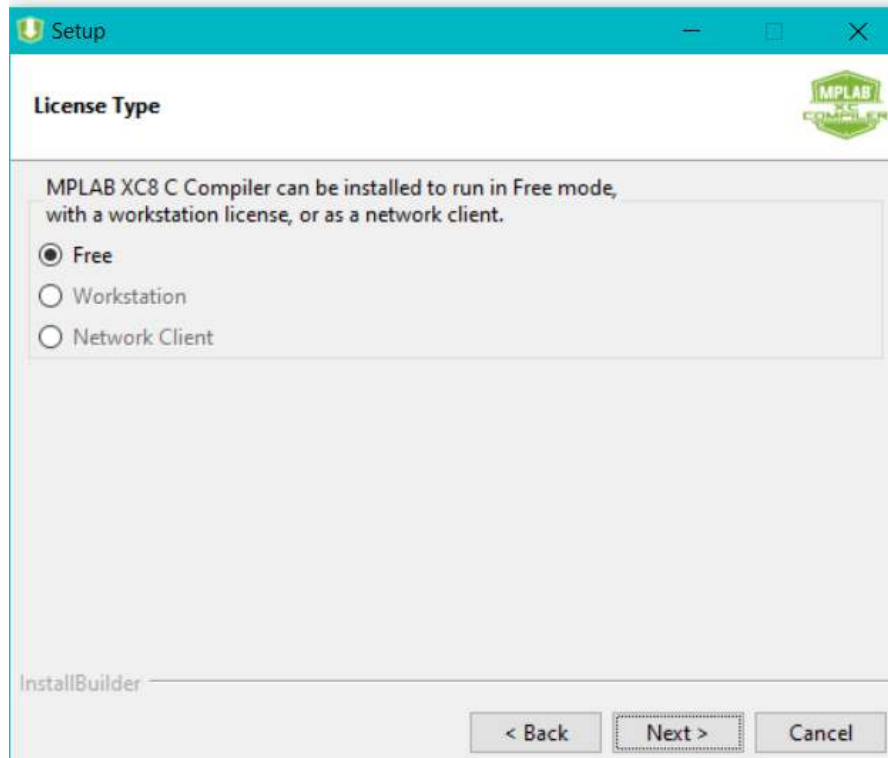
12- The following screen will appear to start the setup of the C compiler. Click “Next”.



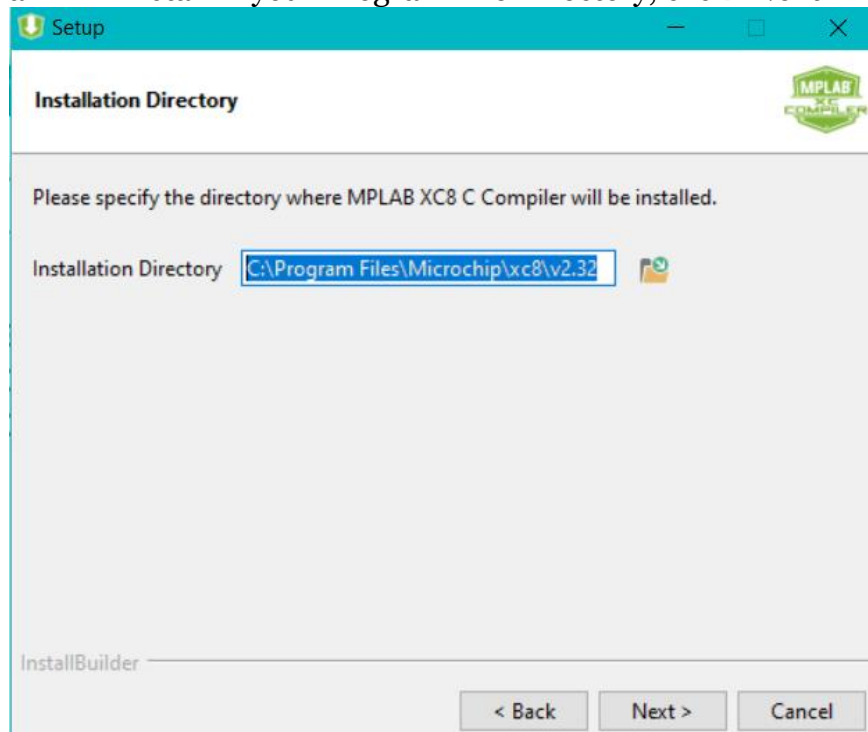
13- Again, Accept the terms ad conditions and click “Next”:



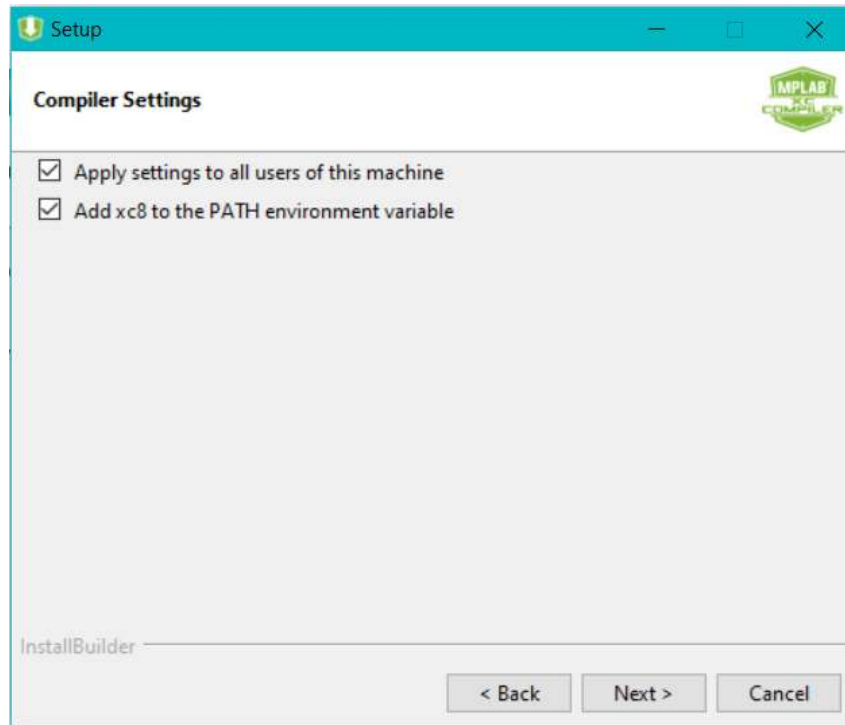
14- Keep the “Free” option selected and click on “Next”:



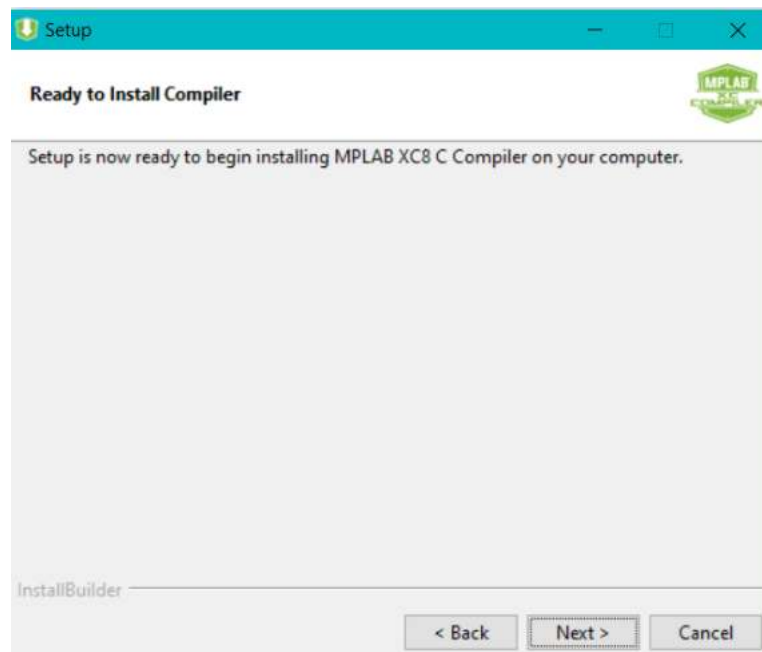
15- The program will install in your Program File Directory, click “Next”



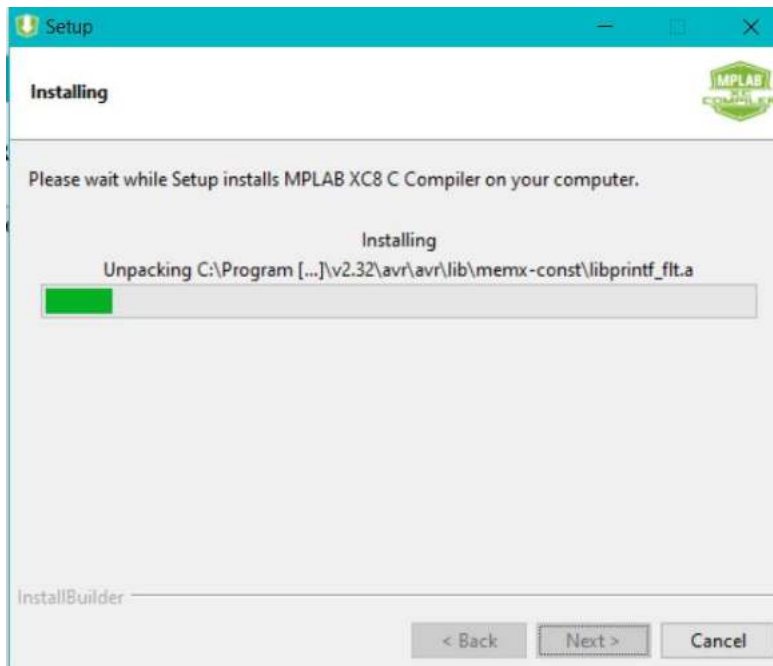
16- When the following screen appears, check both boxes to make sure the C compiler is linked to the MPLAB IDE.



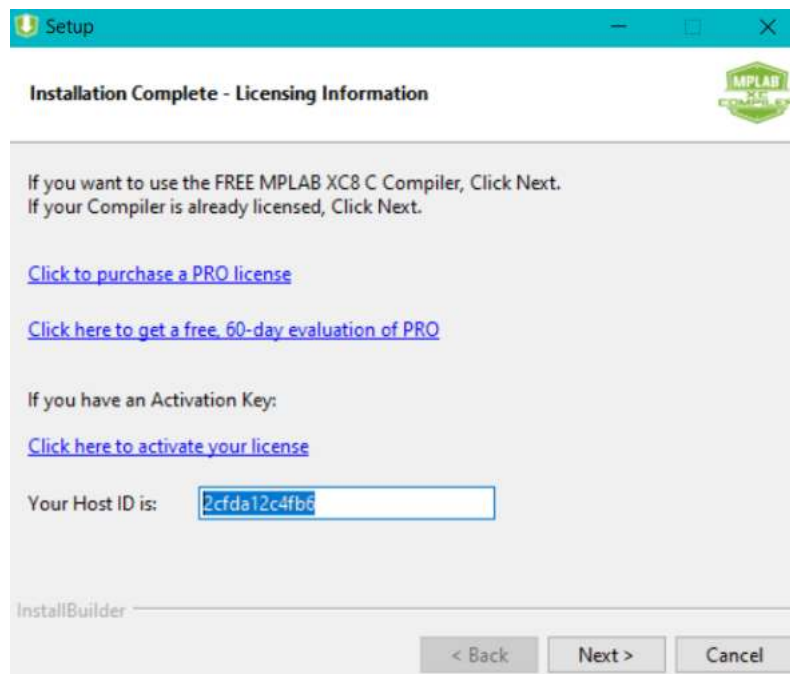
17- The following screen will appear to indicate the installation process will start. Click on "Next" to allow the program to install.



18- Wait until the program finishes the installation seen in the following window



19- Since this is the free version. Just click “Next” in the following screen to finish the setup process.



Click Finish to Finalize the system. Now your computer is ready for the first lab