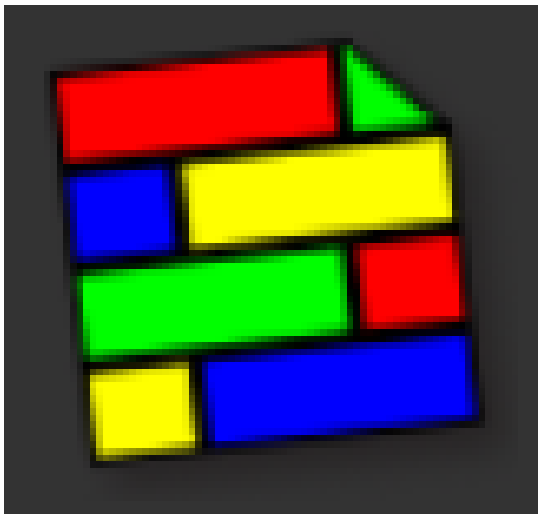


MINI IDE

Hyun Cha
Lorenzo Zubieta

Introduction to MiniIDE

MiniIDE is a tool for students and embedded software developers who write software in assembler for Motorola's 68HC11 and 68HC12 microcontroller.

MiniIDE is an integrated development environment running under Windows XP or higher. It was especially designed for Motorola's M68EVB912B32 evaluation board and replaces the assembler which comes along with the EVB package. However, it can be used for any evaluation board that has the 68HC11 or 68HC12 on it. MiniIDE incorporates an editor and a serial communication terminal. A command line cross‑assembler, which is seamlessly integrated in the IDE, is included.

Cross assembler Asm11/Asm12 Features:

- Accepts all common syntax for maximum compatibility with other assembler.
- Run from the command line or within MiniIDE.
- Conditional assembly.
- Macro capability.
- PC-relative (,pcr) assembling.
- Multi-pass technique.
- The world's fastest assembler in it's class.

System Requirements

Supported operating systems

- Windows XP SP2 or higher
- Linux (Asm11/Asm12 only)
- HP-UX 10.20 (Asm11/Asm12 only)

Additional requirements

- A Motorola M68EVB912B32 evaluation board or similar

Windows Downloads

The popular integrated development environment for the HC11/HC12 can be downloaded at no charge exclusively at MGTEK. It includes the integrated macro cross assembler ASM11 and ASM12.

MiniIDE V1.17 - Windows (32-bit)

This Windows Installer package includes the MiniIDE and our ASM11 and ASM12 cross assembler.

UNIX Downloads

This section includes pre-build binaries of our popular ASM11 and ASM12 assembler for Linux and HP-UX. The binaries are copyrighted and covered under the MiniIDE license.

Asm11/Asm12 V1.17 - Linux (x86)

This archive includes a Linux port of our ASM11 and ASM12 assembler.

Asm11/Asm12 V1.17 - HP-UX 10.20 and later

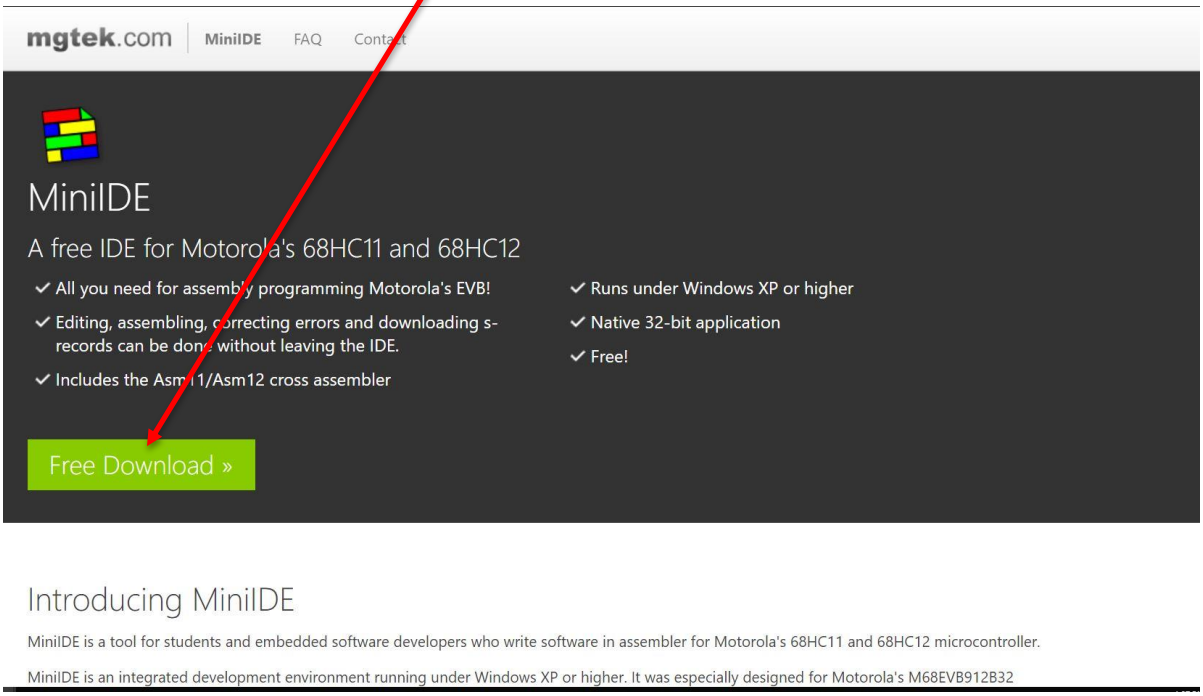
This archive includes a HP-UX 10.20 port of our ASM11 and ASM12 assembler.

Note: These packages do not include the IDE.

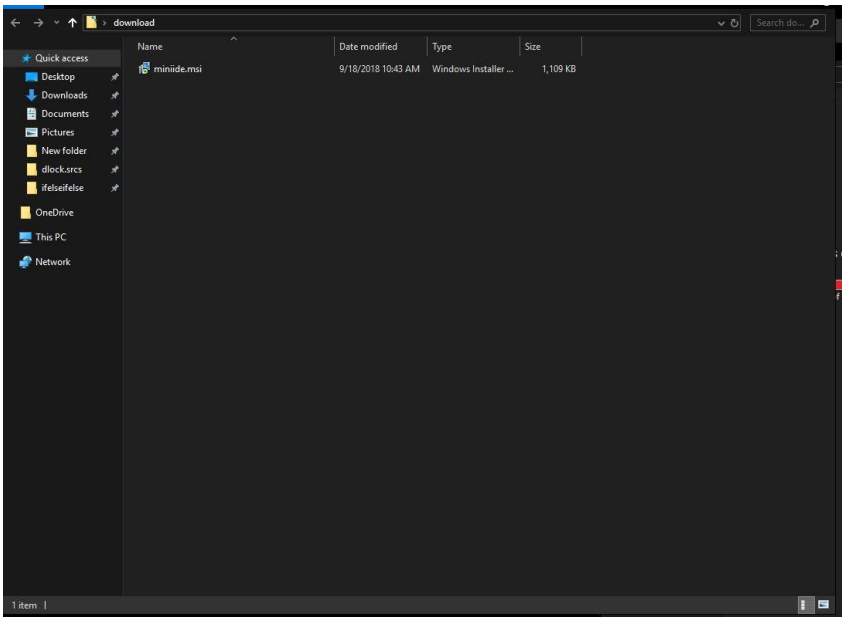
Installing Mini IDE

Go to the link provided below then click on Free Download

https://www.mgtek.com/miniide/

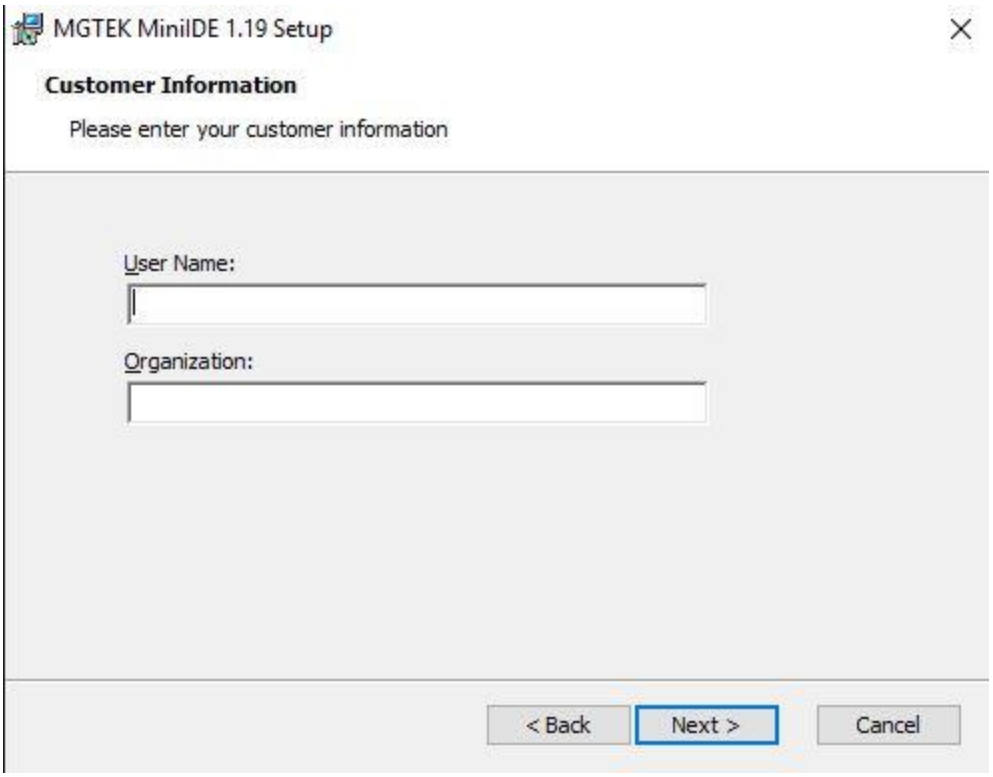


File normally saves to Downloads folder but it can be saved elsewhere if you want.

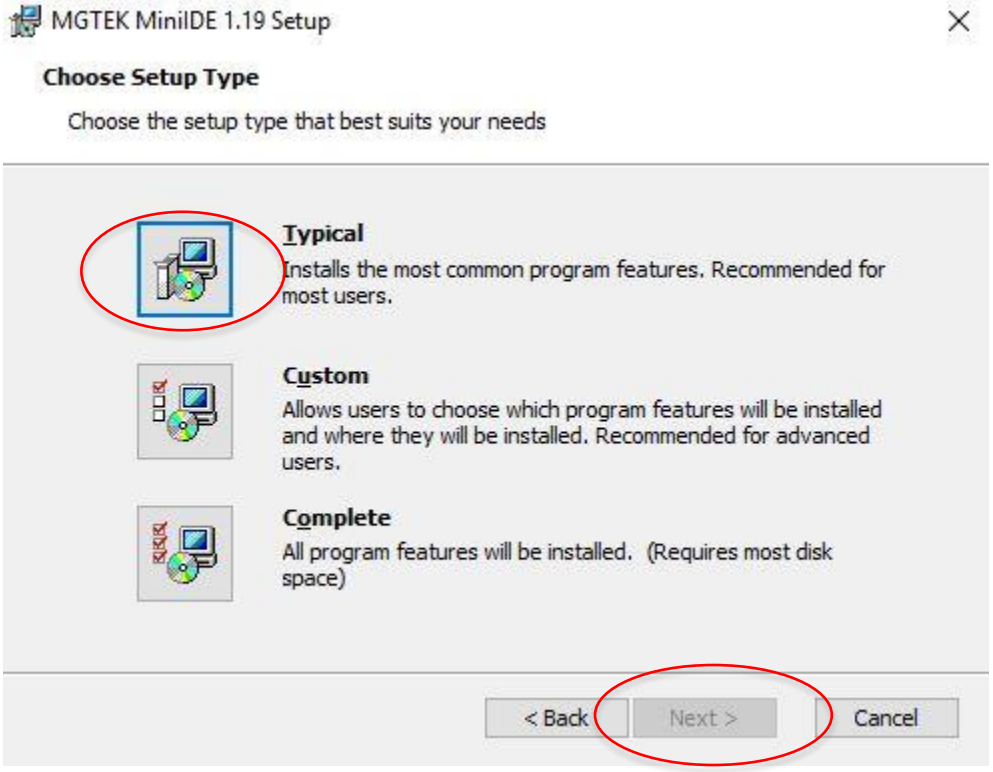


Click Next>

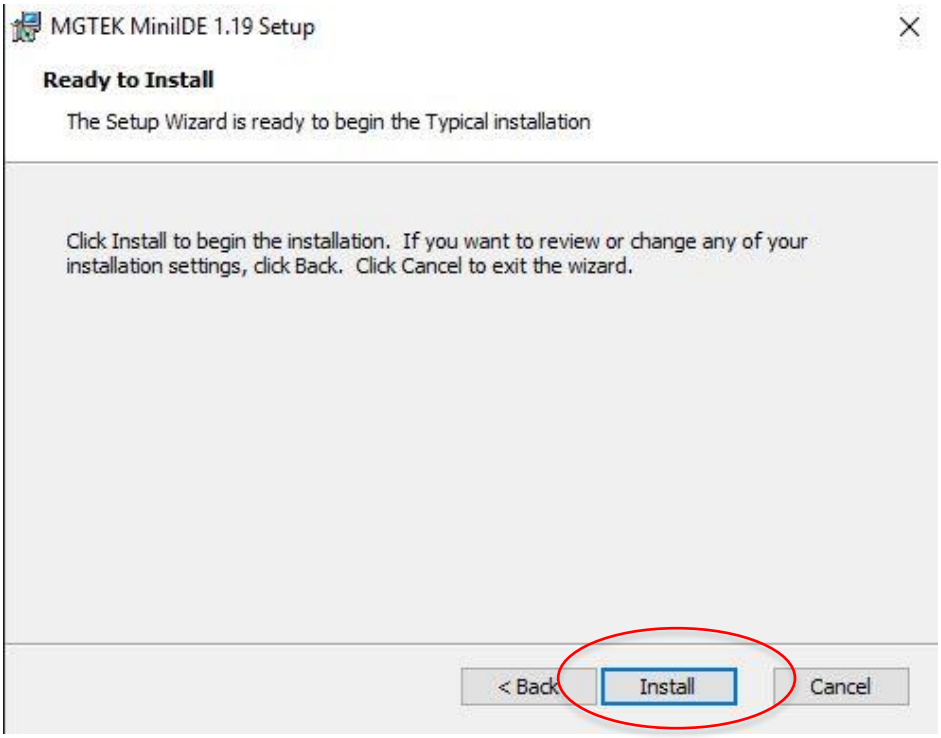
Click “I accept…” then click Next>



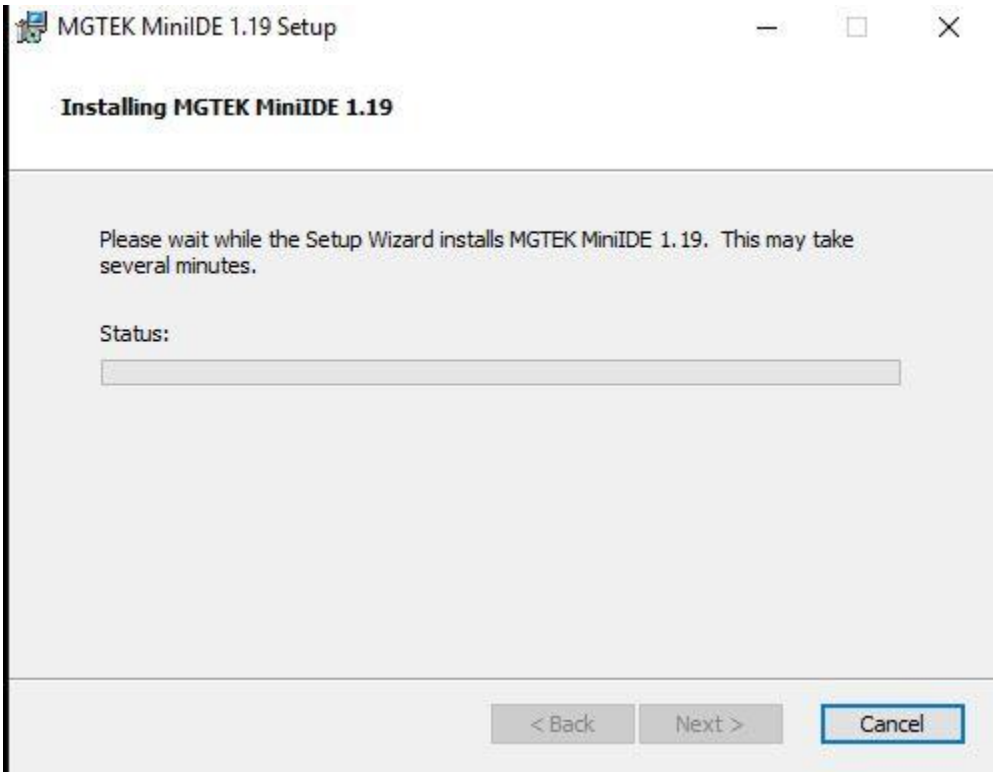
Select **Typical** setup then click Next>



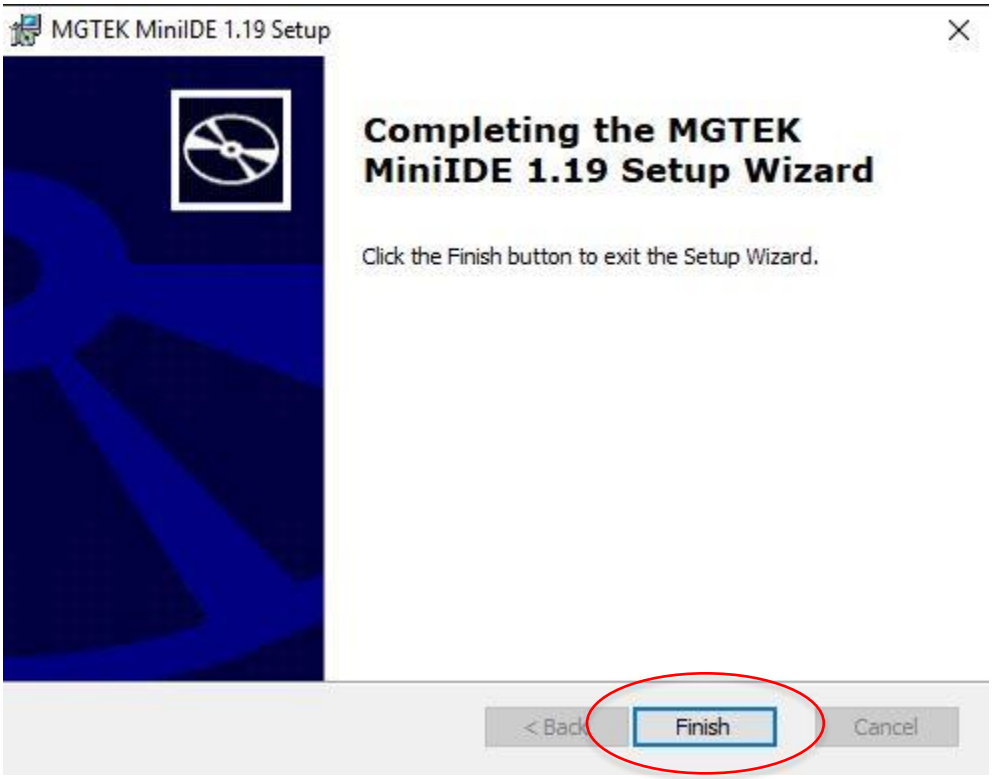
Click **Next**>



Installation may take several minutes.



Click **Finish**



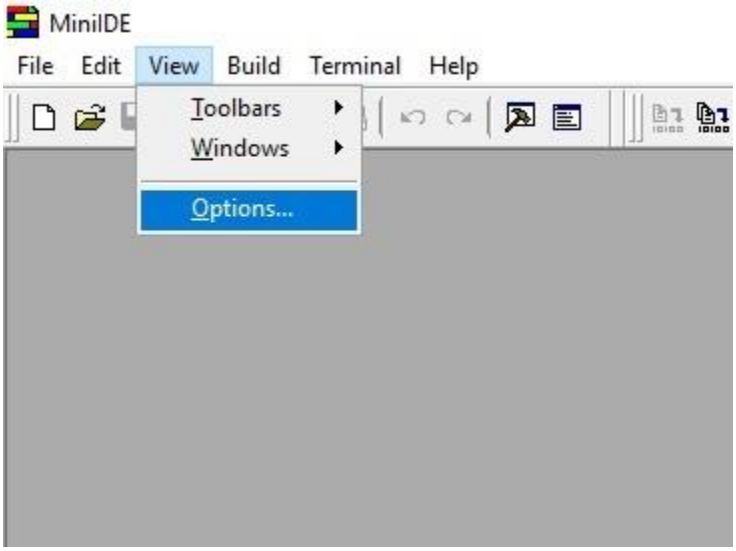
IDE Mini icon should now be on your desktop.

Setting up MiniIDE

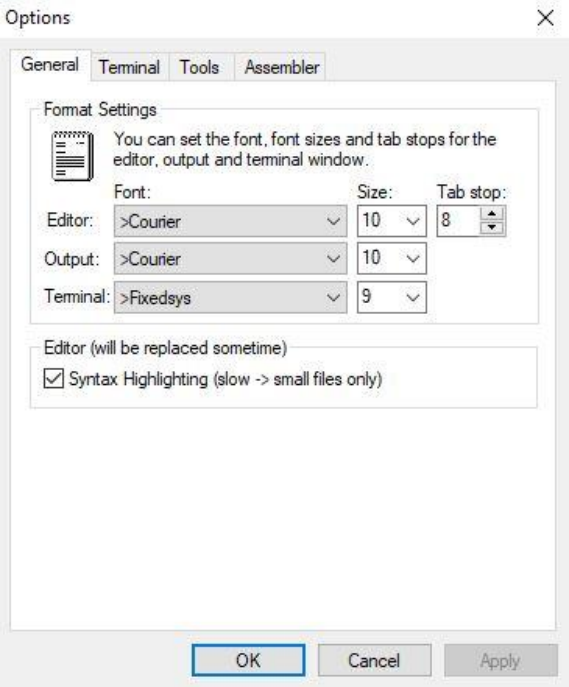
For the first time you will need to set the following parameters on MiniIDE so that it works with the **M68HC11**

Open MiniIDE

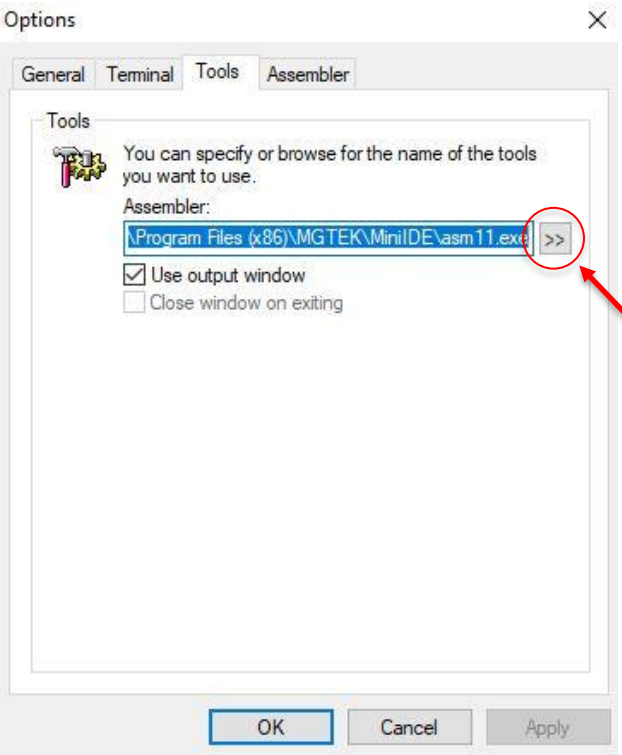
Click on the drop menu "**View**" then click on **Options**.



Set up your options menu to look like the ones below.

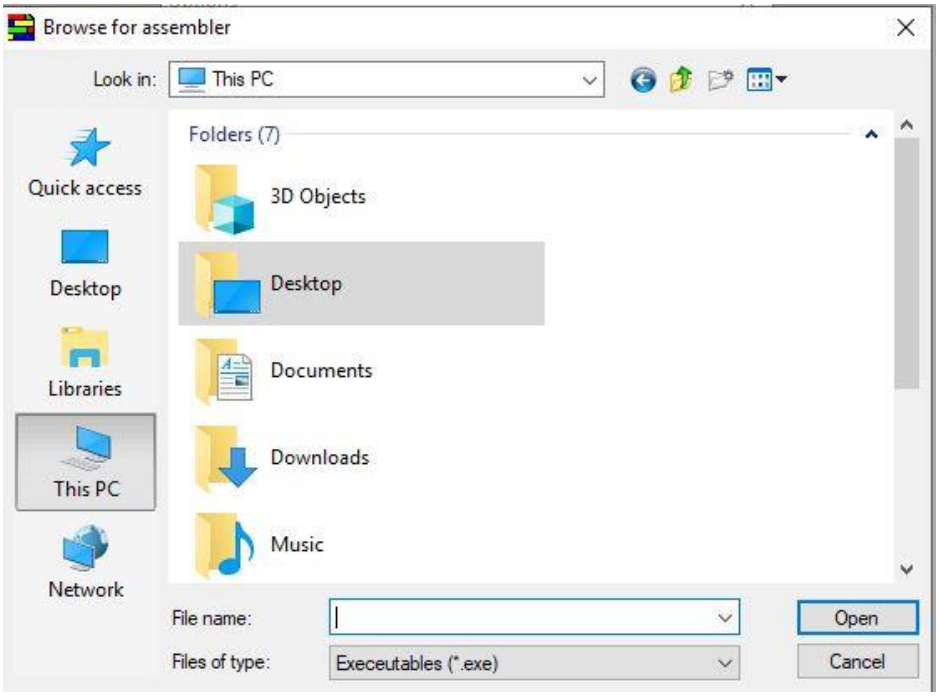


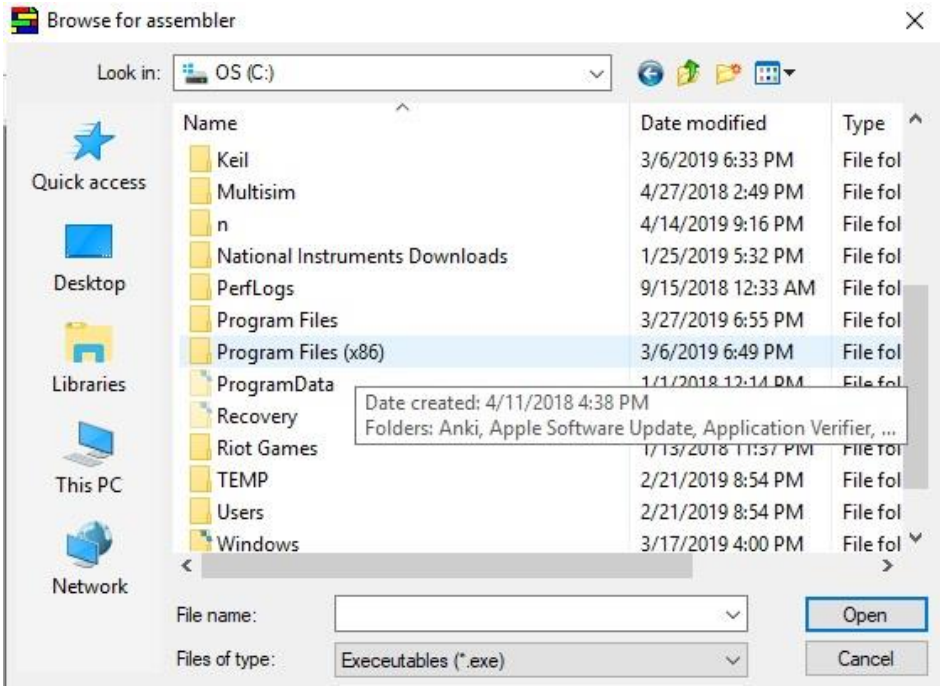
Go to "**Tools"** tab

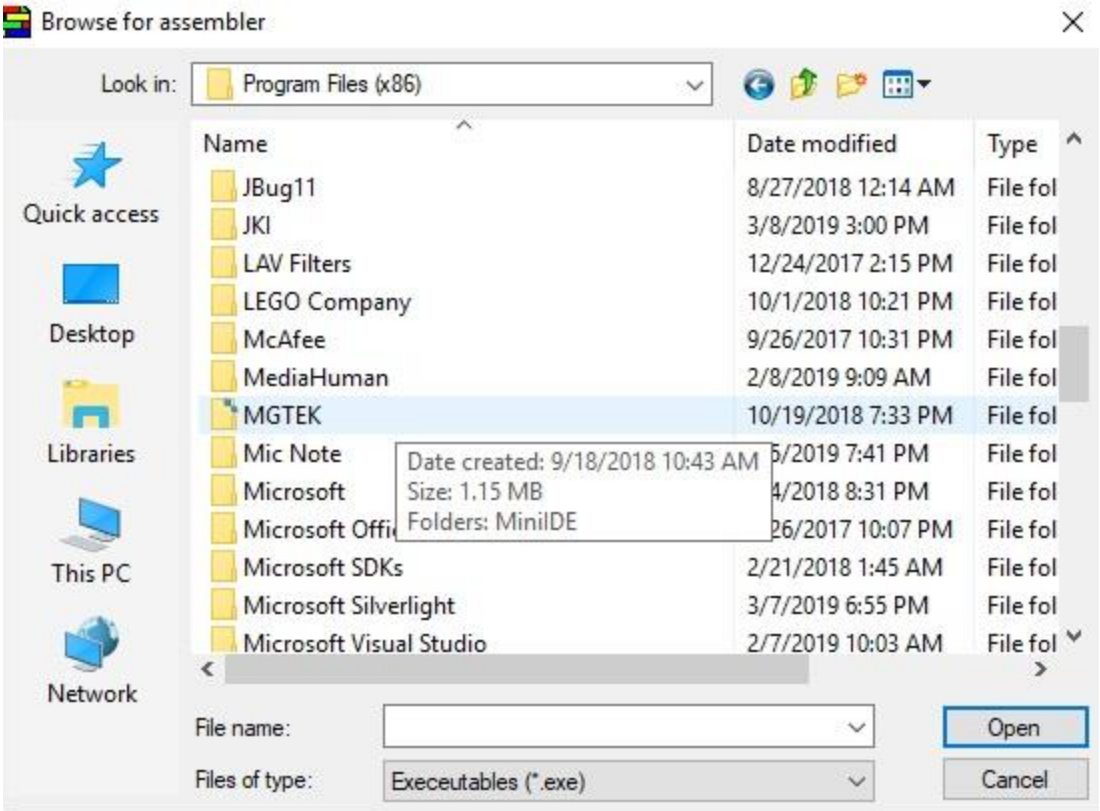


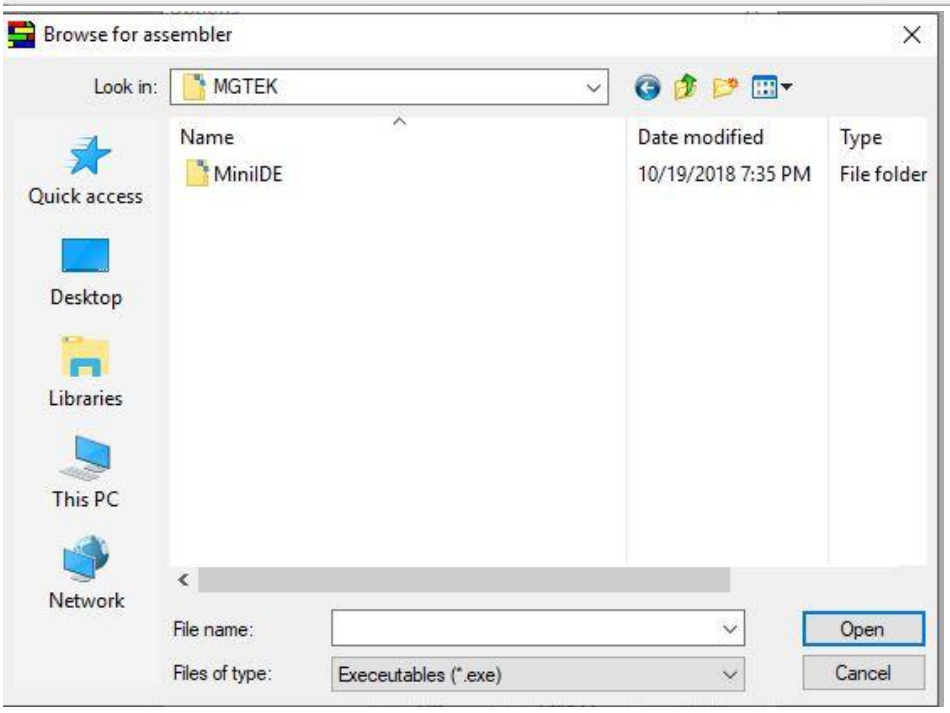
IMPORTANT: Check to see if the Assembler: is set up as **asm11.exe**. If not click the [>>] box

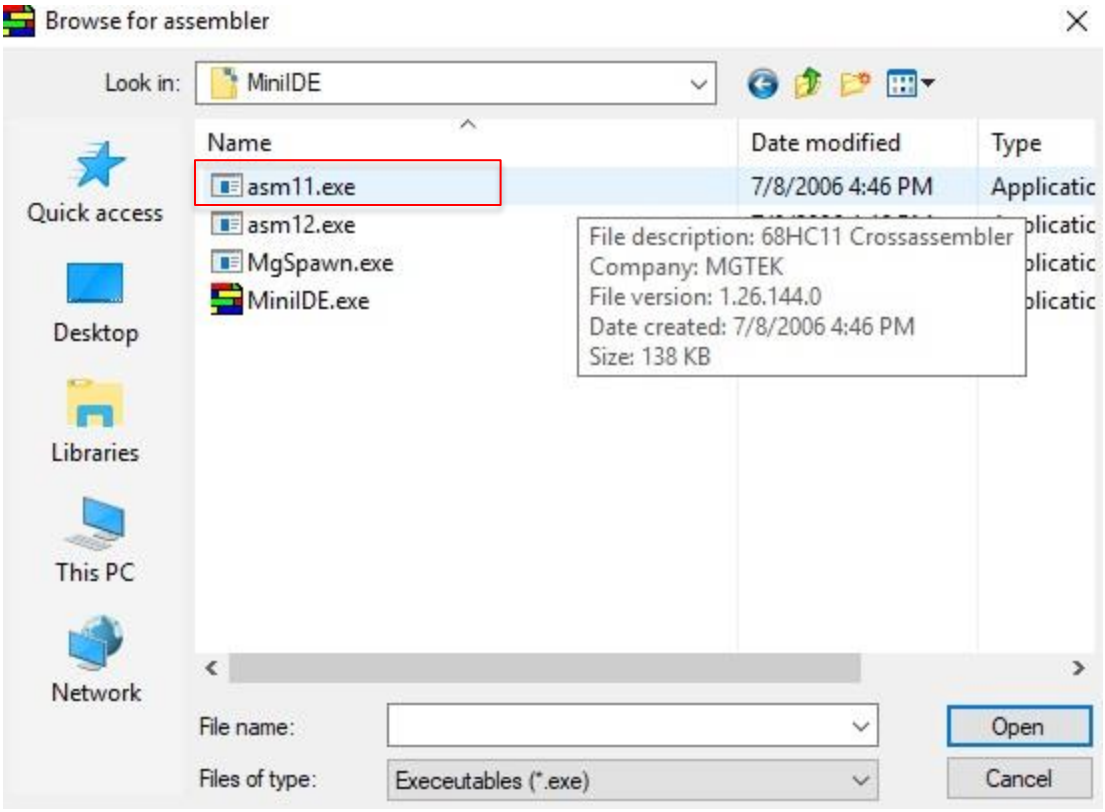
Go to where the MiniIDE was saved to find asm11.exe





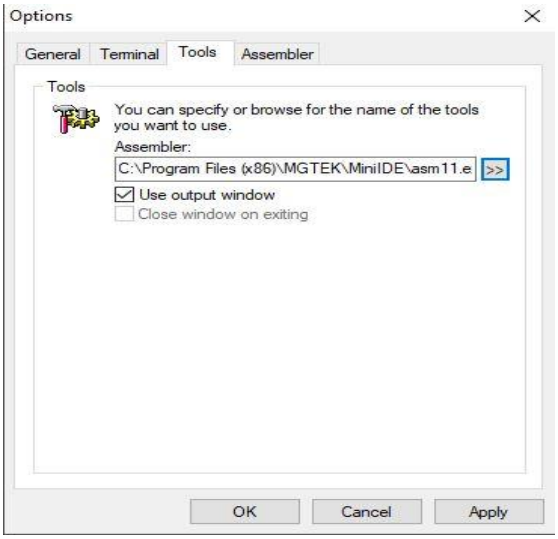

Browse for assembler
Look in:
Program Files (x86)
Quick access
Desktop
Libraries
This PC
Network
Name
Date modified
Type
JBug11
8/27/2018 12:14 AM
File fol
JKI
3/8/2019 3:00 PM
File fol
LAV Filters
12/24/2017 2:15 PM
File fol
LEGO Company
10/1/2018 10:21 PM
File fol
McAfee
9/26/2017 10:31 PM
File fol
MediaHuman
2/8/2019 9:09 AM
File fol
MGTEK
10/19/2018 7:33 PM
File fol
Mic Note
Microsoft
Microsoft Offi
Microsoft SDKs
2/21/2018 1:45 AM
File fol
Microsoft Silverlight
3/7/2019 6:55 PM
File fol
Microsoft Visual Studio
2/7/2019 10:03 AM
File fol
Date created: 9/18/2018 10:43 AM
Size: 1.15 MB
Folders: MinilDE
File name:
Files of type:
Execeutables (*.exe)
Open
Cancel


Browse for assembler
Look in:
MGTEK
Quick access
Desktop
Libraries
This PC
Network
Name
Date modified
Type
MinilDE
10/19/2018 7:35 PM
File folder
File name:
Files of type:
Execeutables (*.exe)
Open
Cancel



Locate the asm11.exe under **C:\Program Files(x86)\ MGTEK\ MiniIDE\ asm11.exe**

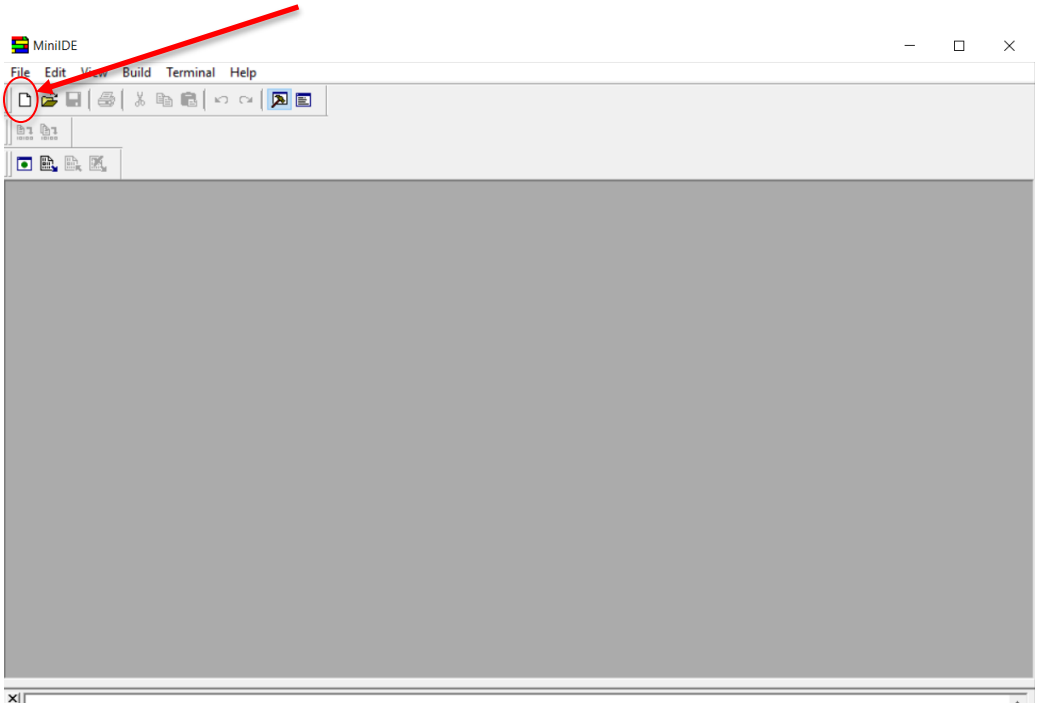
Go back to the setting up instructions until you get to the following screen.

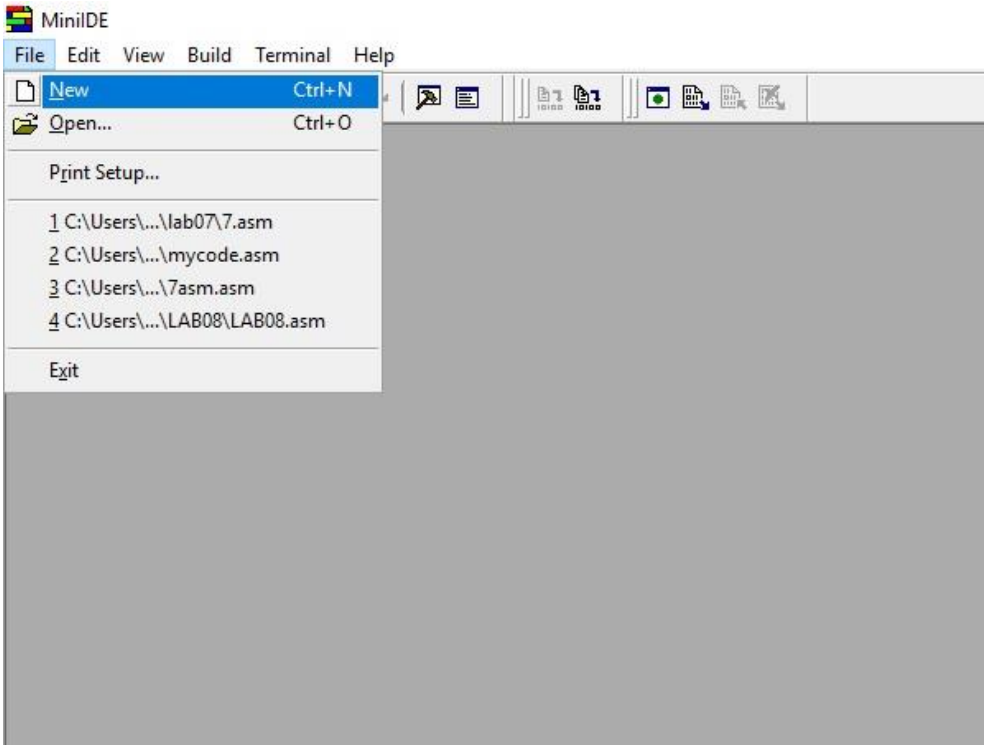


Check to make sure asm11.exe is set as Assembler: if so then click OK

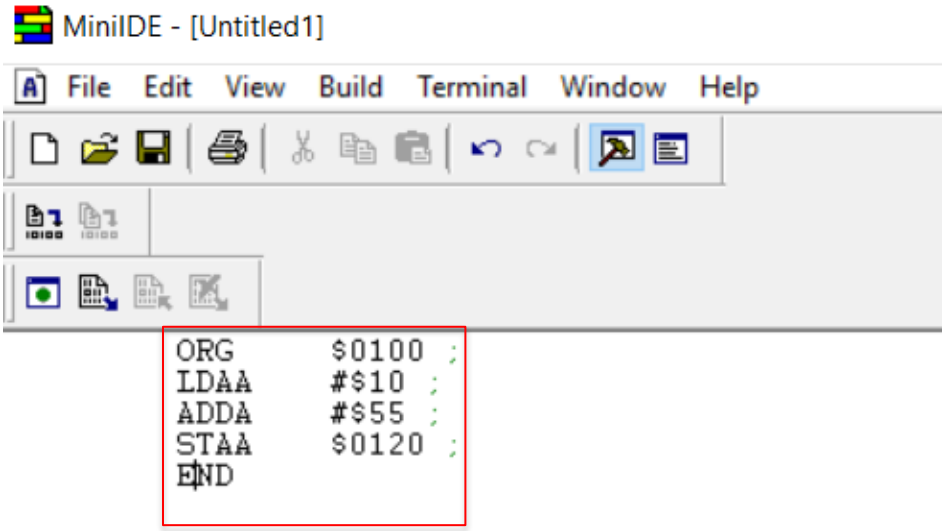
Assembling a program for JBUG

Click **File->New** or **New icon**

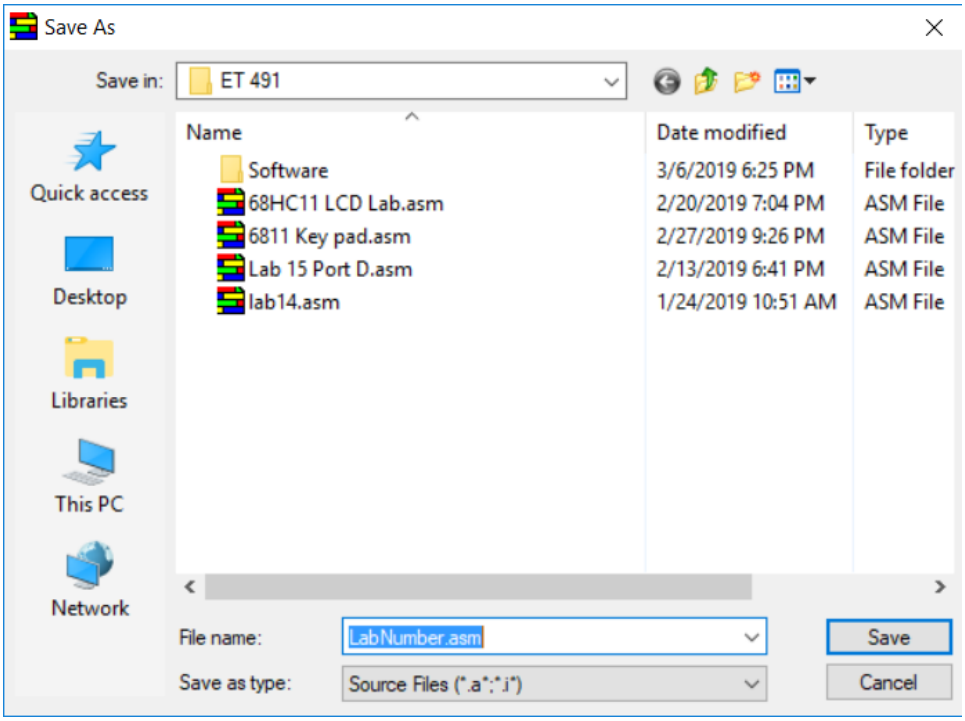




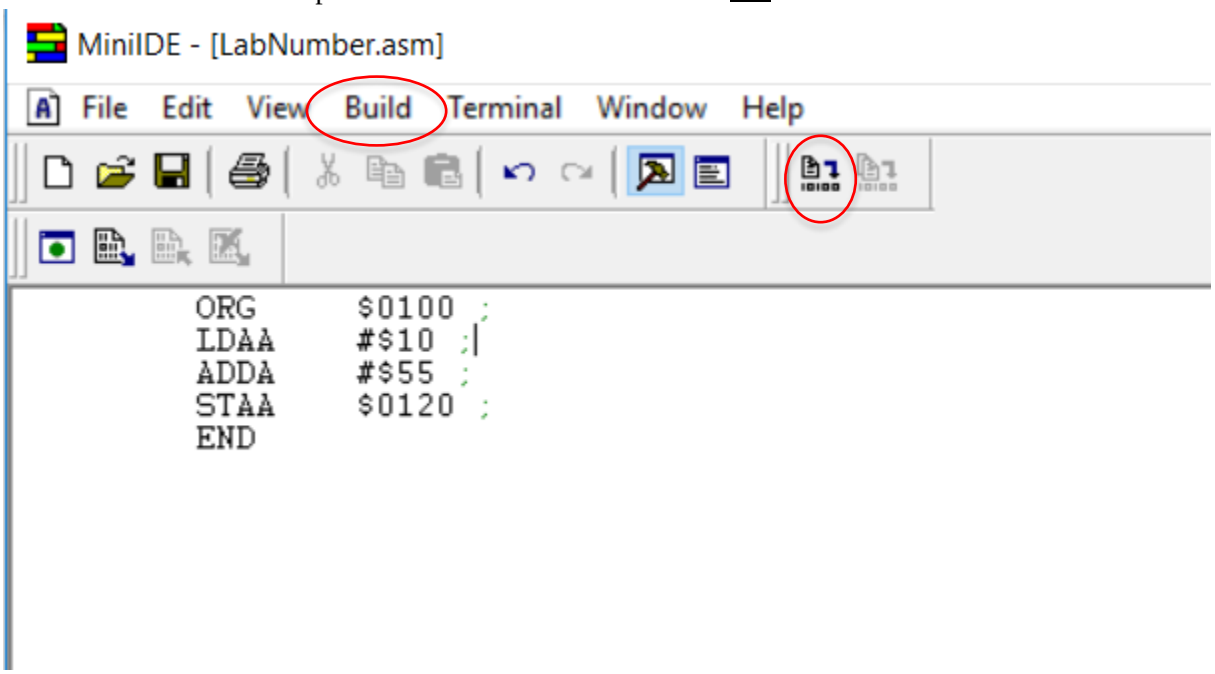
Insert Code. Ensure that the syntax is appropriate



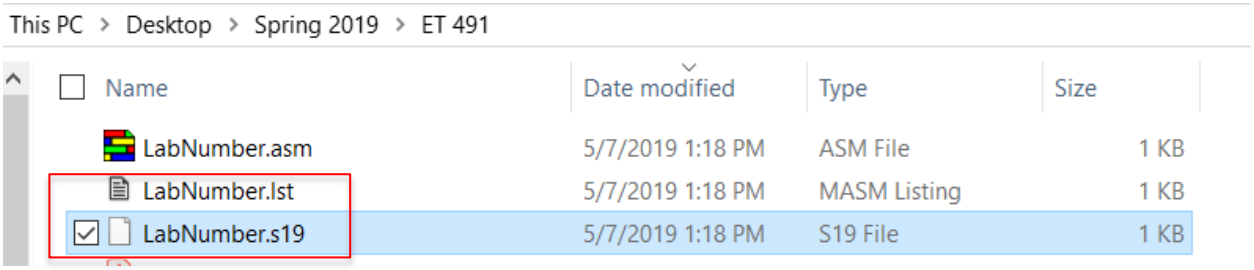
Save.
Select a folder where you will be saving the program. **Save as <u>.asm file</u>**



Next > Click on **Build** drop menu > **Build LabNumber.asm** OR click **Build current icon**



By doing this it will generate a **.lst** and **s19 file**



This will be used for the JBUG program.

Programs will now be executable in JBUG.