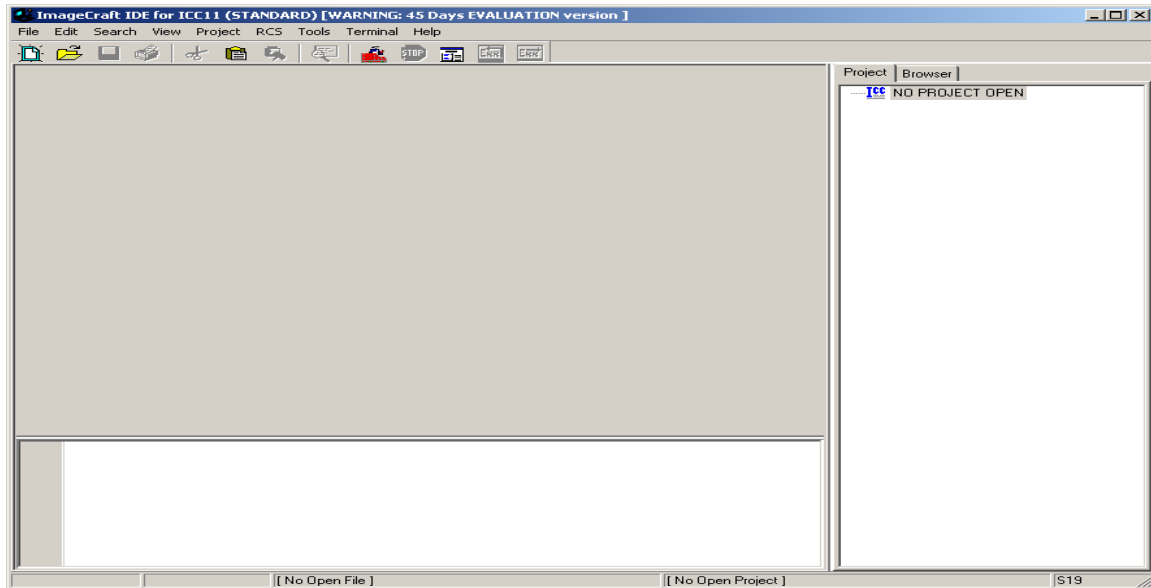


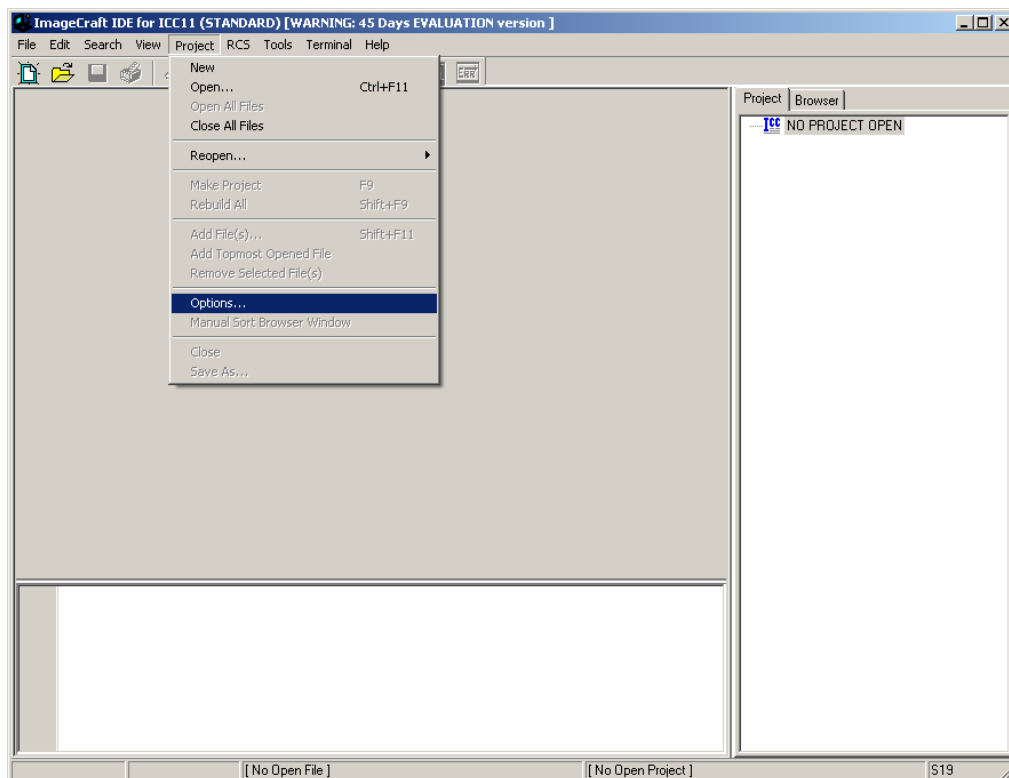
## How to use ICC11 with Adapt11 and MicroLOAD

In this example the Hello World will be compiled and can be found at directory where ICC11 was installed.

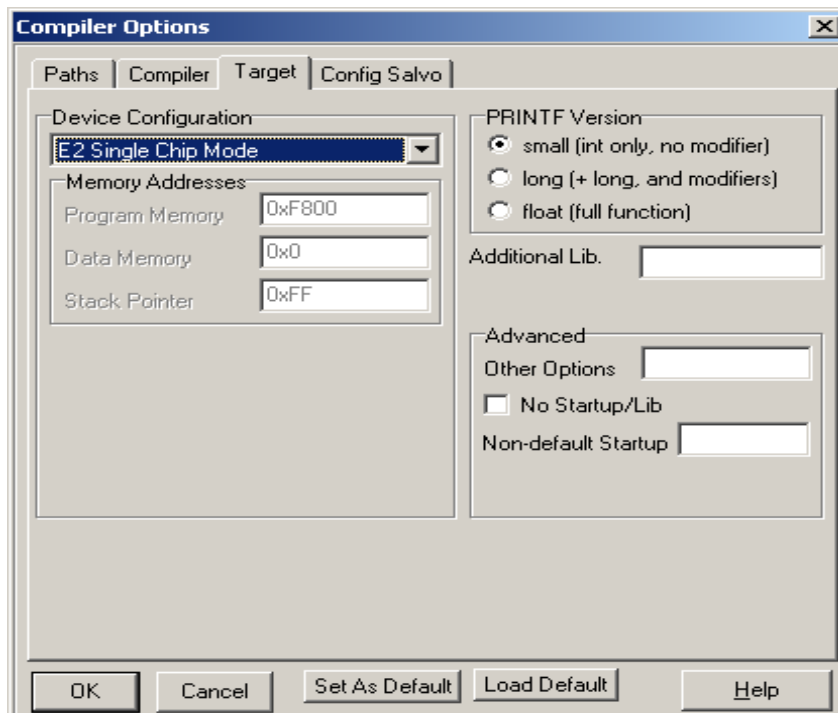
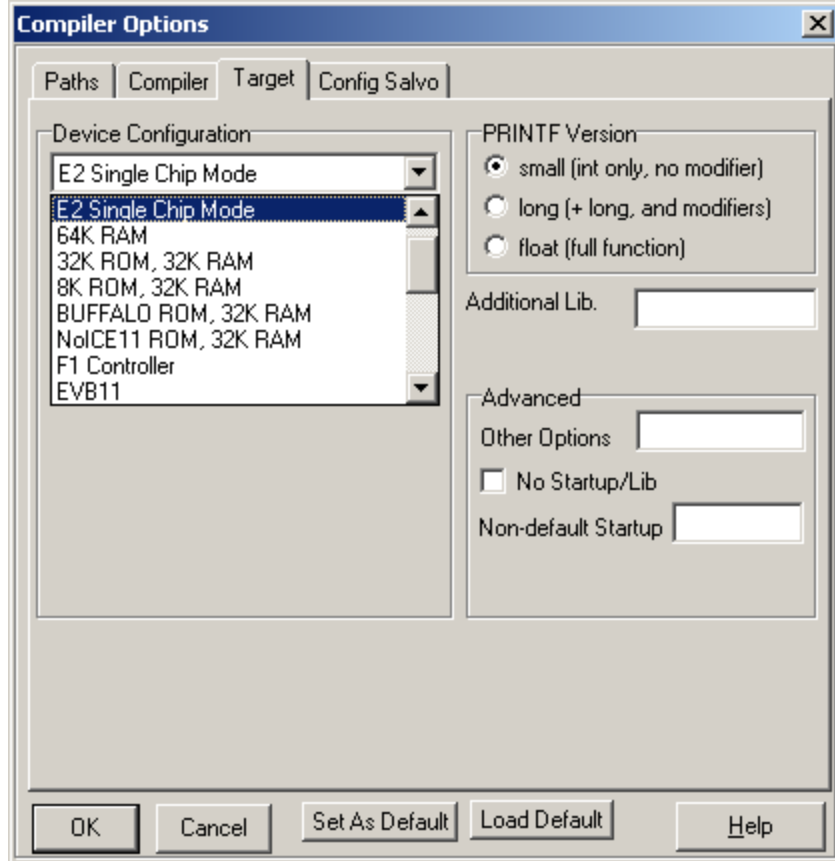
Click on the ICC11 icon to start.



The Project Options needs to be setup for the Adapt11. Click Project menu - Options

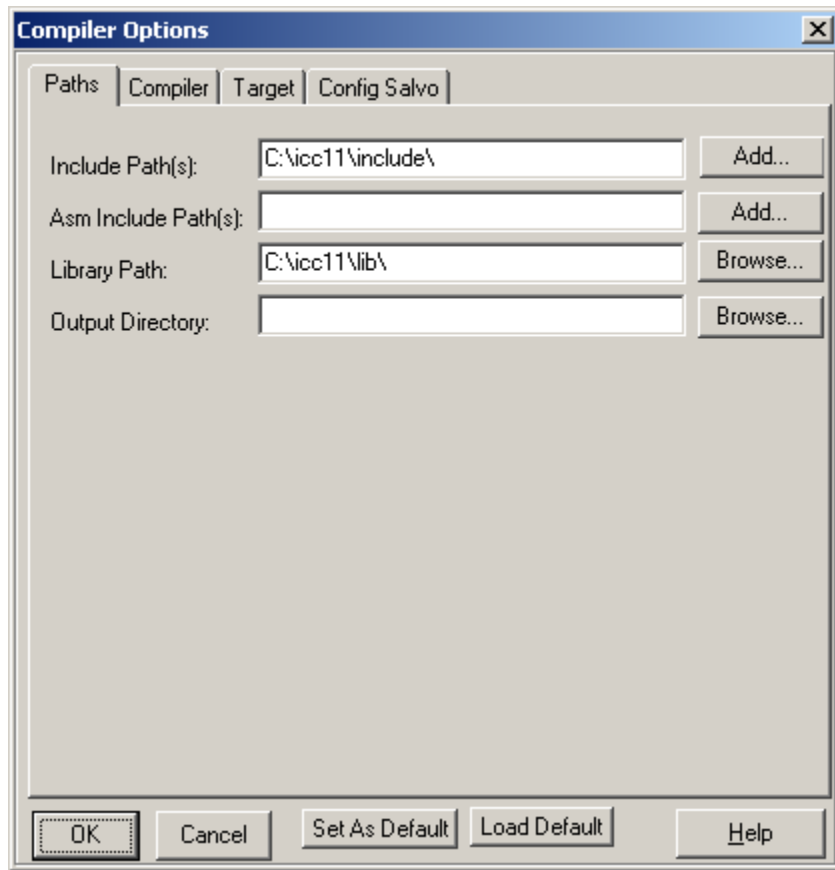


Scroll up or down to select E2 SingleChip Mode

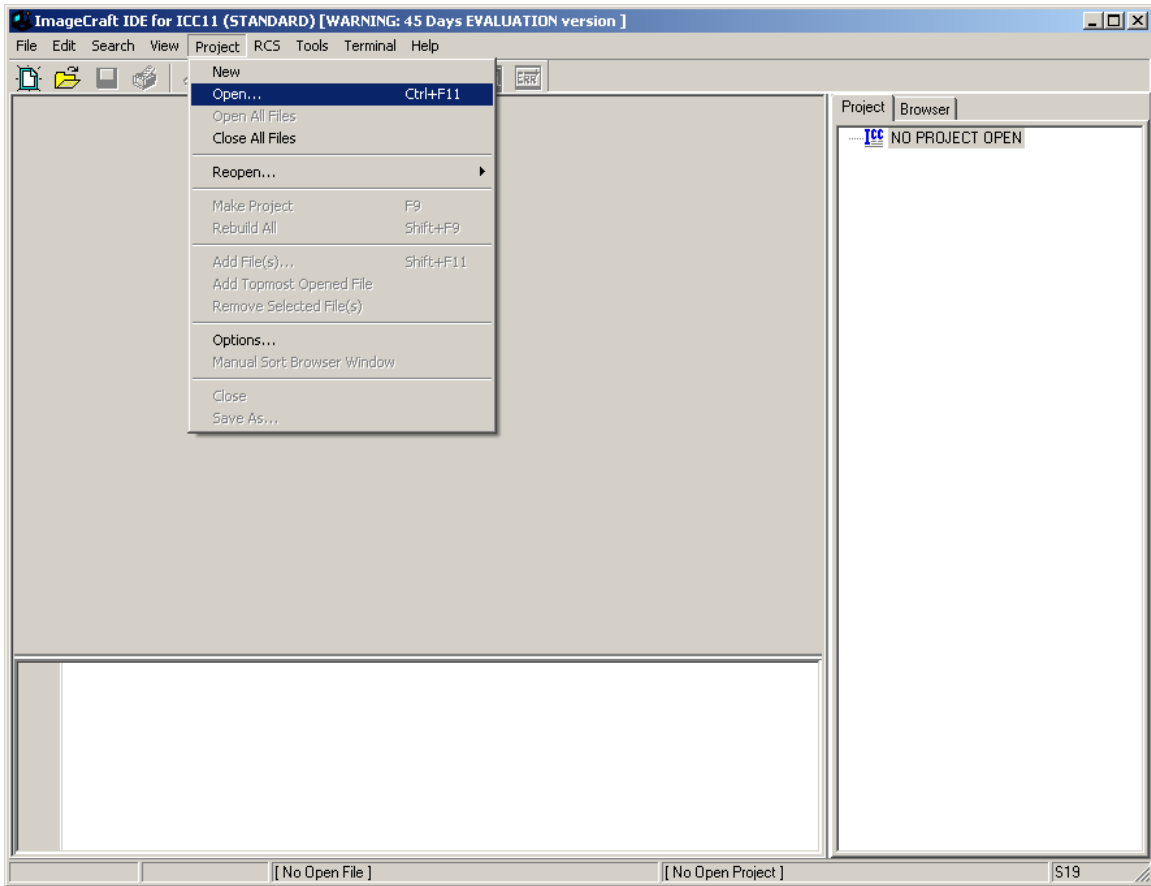


Check the Compiler's Include and Library paths. In this example the ICC11 was installed in a directory called [C:\ICC11](#)

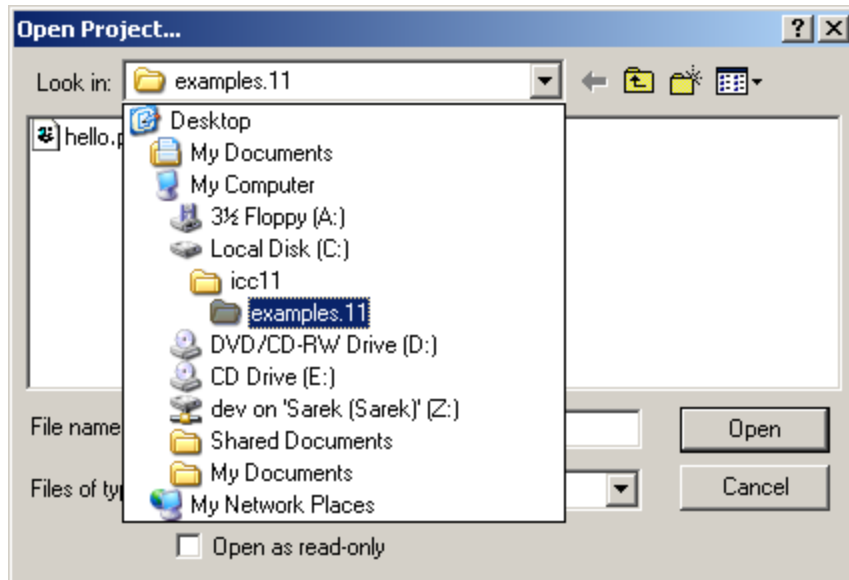
The paths were edited to make sure the file path can be found in the *ICC11* folder. One may not need to edit the Include and Library path.



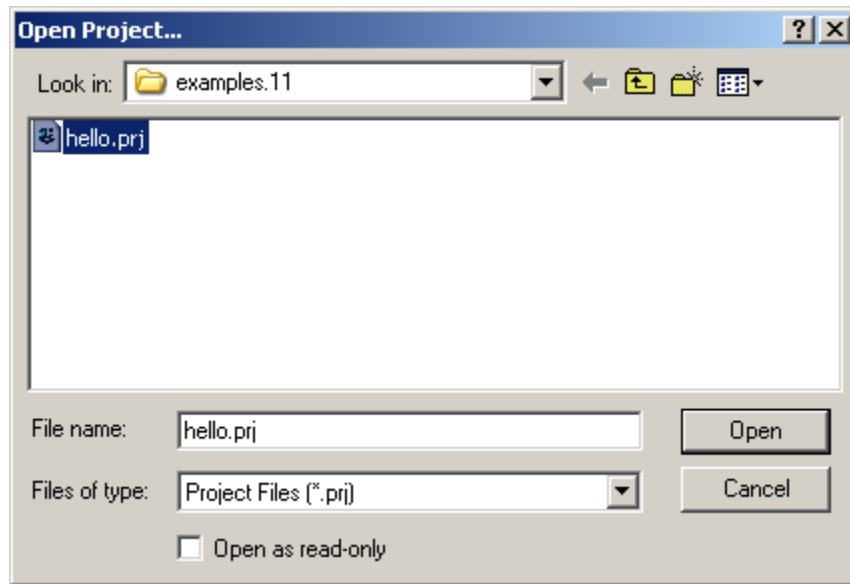
Click Project menu – Open as shown.



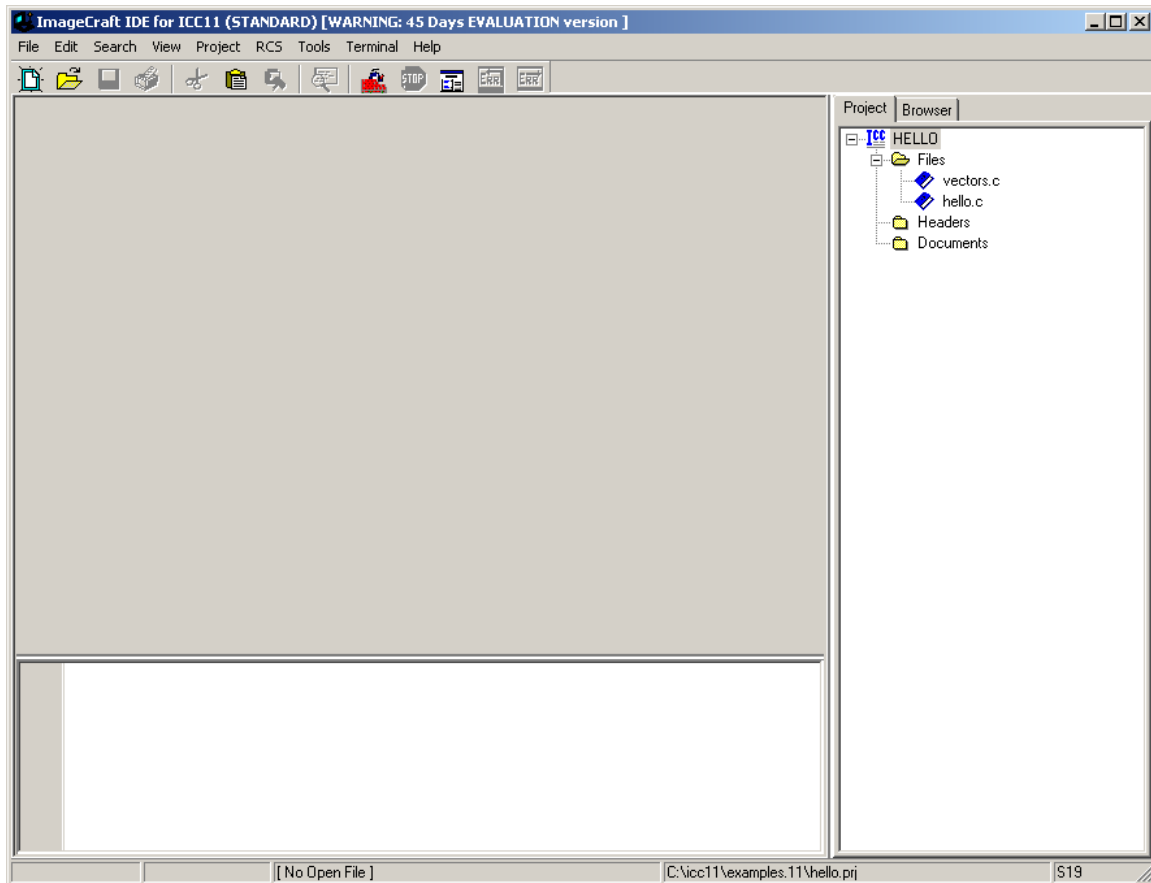
Locate the *example.11* subdirectory in ICC11 folder.



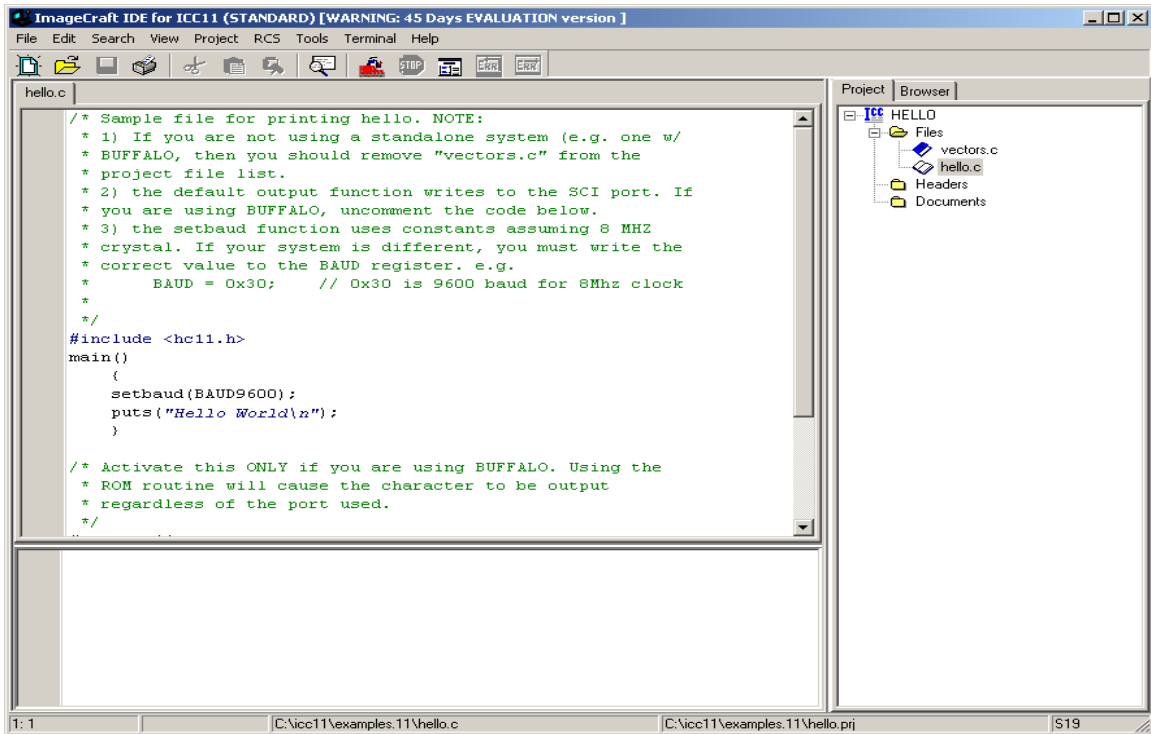
Click on *hello.prj* then press the Open button



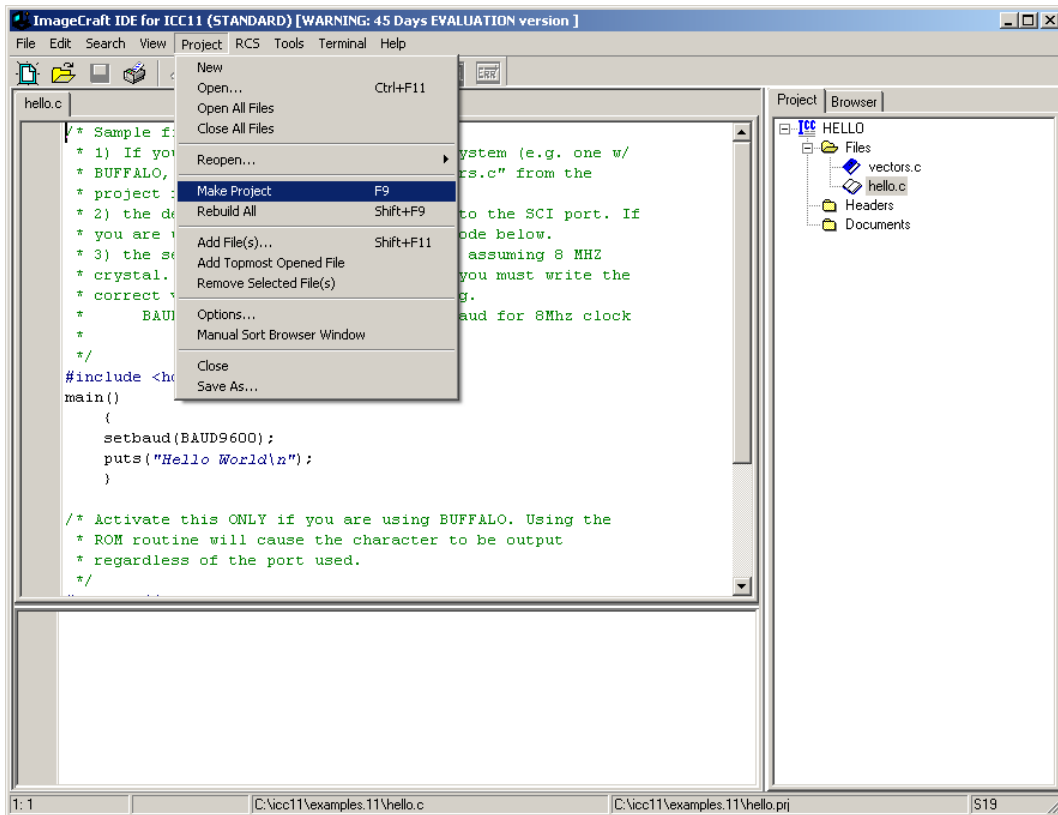
Note that the Project window will change to include *Vectors.c* and *hello.c*



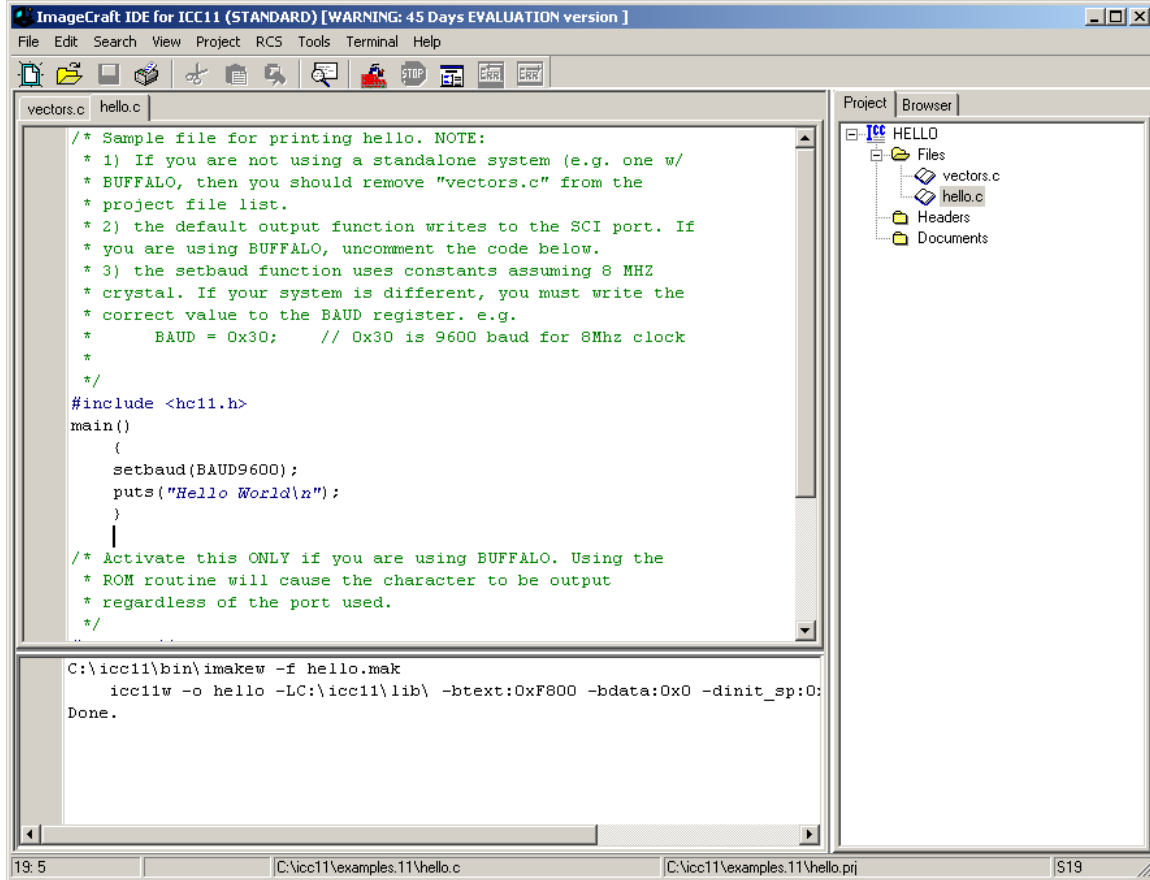
Double Click on *hello.c* in the project window to see the content of the file.



To compile/build/make click on the Project menu – Make Project as shown.



After the build – Note that there are no errors.



The screenshot shows the ImageCraft IDE for ICC11 (STANDARD) [WARNING: 45 Days EVALUATION version]. The main window displays a C program named 'hello.c' with the following code:

```
/* Sample file for printing hello. NOTE:
 * 1) If you are not using a standalone system (e.g. one w/
 * BUFFALO, then you should remove "vectors.c" from the
 * project file list.
 * 2) the default output function writes to the SCI port. If
 * you are using BUFFALO, uncomment the code below.
 * 3) the setbaud function uses constants assuming 8 MHZ
 * crystal. If your system is different, you must write the
 * correct value to the BAUD register. e.g.
 *     BAUD = 0x30;    // 0x30 is 9600 baud for 8Mhz clock
 */
#include <hc11.h>
main()
{
    setbaud(BAUD9600);
    puts("Hello World\n");
}

/* Activate this ONLY if you are using BUFFALO. Using the
 * ROM routine will cause the character to be output
 * regardless of the port used.
 */
```

The terminal window shows the build command and output:

```
C:\icc11\bin\imakew -f hello.mak
icc11w -o hello -LC:\icc11\lib\ -btext:0xF800 -bdata:0x0 -dinit_sp:0:
Done.
```

The Project Browser on the right shows the project structure:

- HELLO
  - Files
    - vectors.c
    - hello.c
  - Headers
  - Documents

This example will use the MicroLOAD from Technological Arts. It can be found at this site.

<http://www.technologicalarts.com/myfiles/microload.html>

And downloadable from this link.

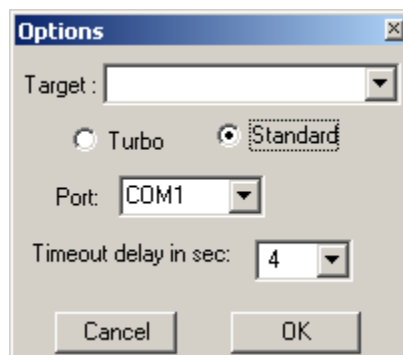
<http://pages.interlog.com/~techart/myfiles/files/ml131.zip>

Unzip and install MicroLOAD.

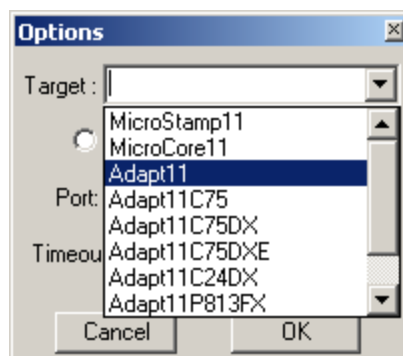
Click on the MicroLOAD icon to initiate GUI program.



Click on the Option menu to select Target. Click on the pulldown arrow to locate target

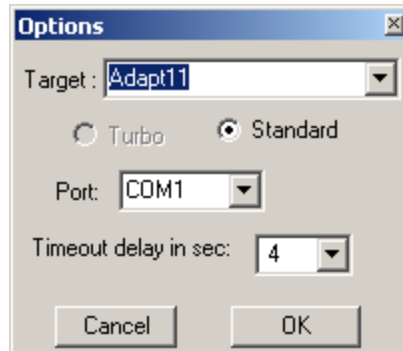


In this example it will be the Adapt11





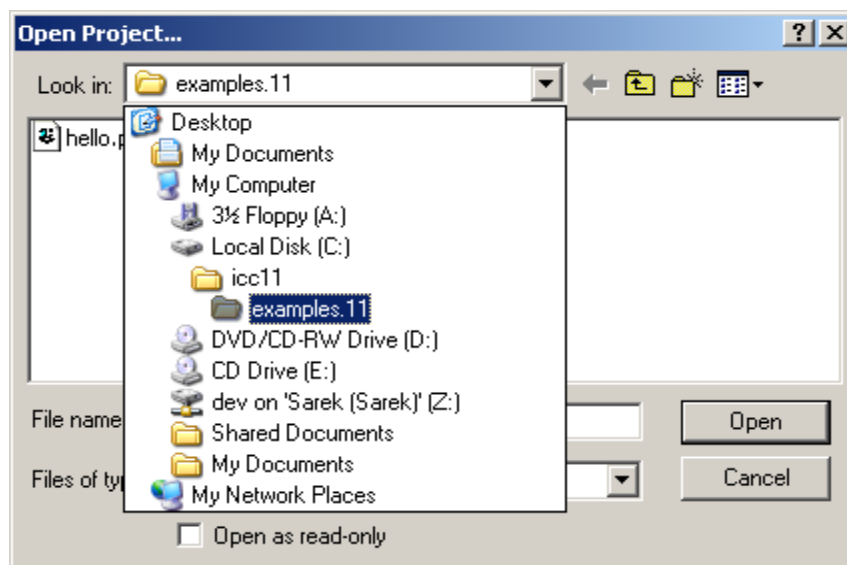
Once the target is selected press the **OK** button

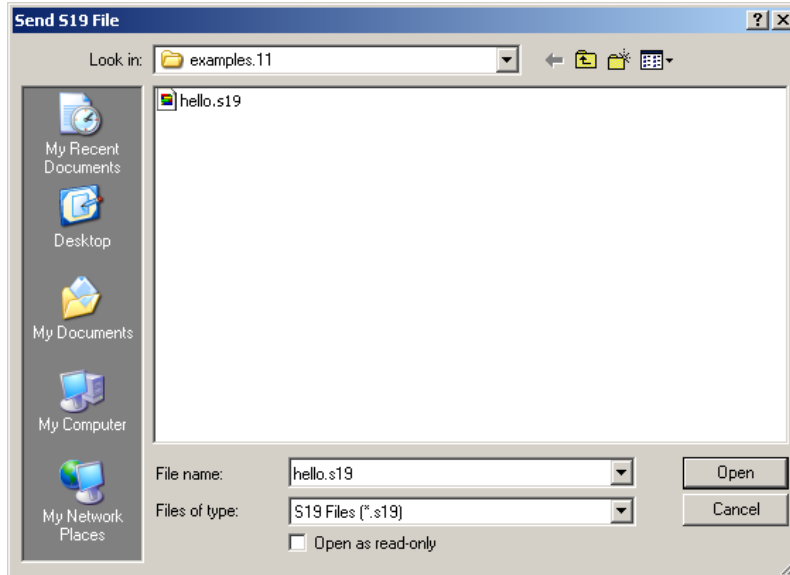


Press on the **Load** button to initiate upload

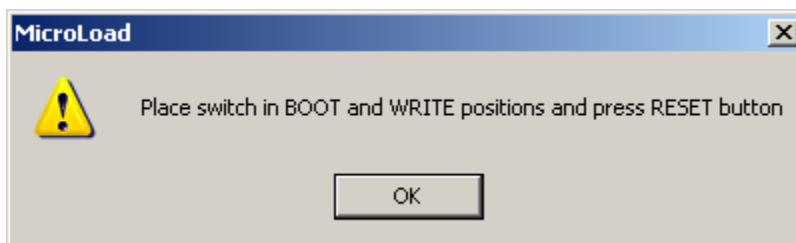


MicroLOAD will open an explorer window to help and locate the hello.s19 file.

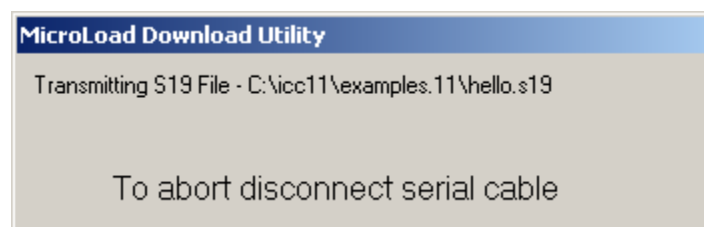




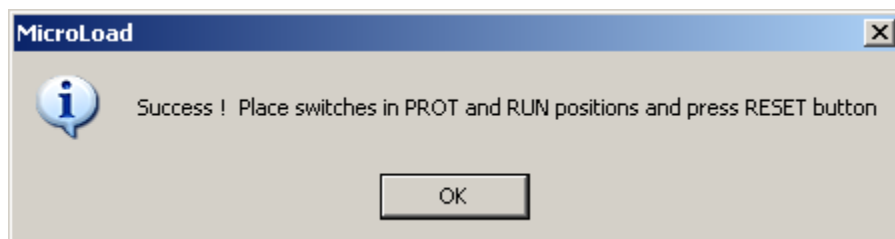
Select hello.s19 then press the **Open** button. A warning message will immediately appear to make sure the RUN/BOOT switch in BOOT mode. Press the RESET button once the unit is in BOOTstrap mode.



Once the OK button is pressed MicroLOAD will immediately begin to upload the file.

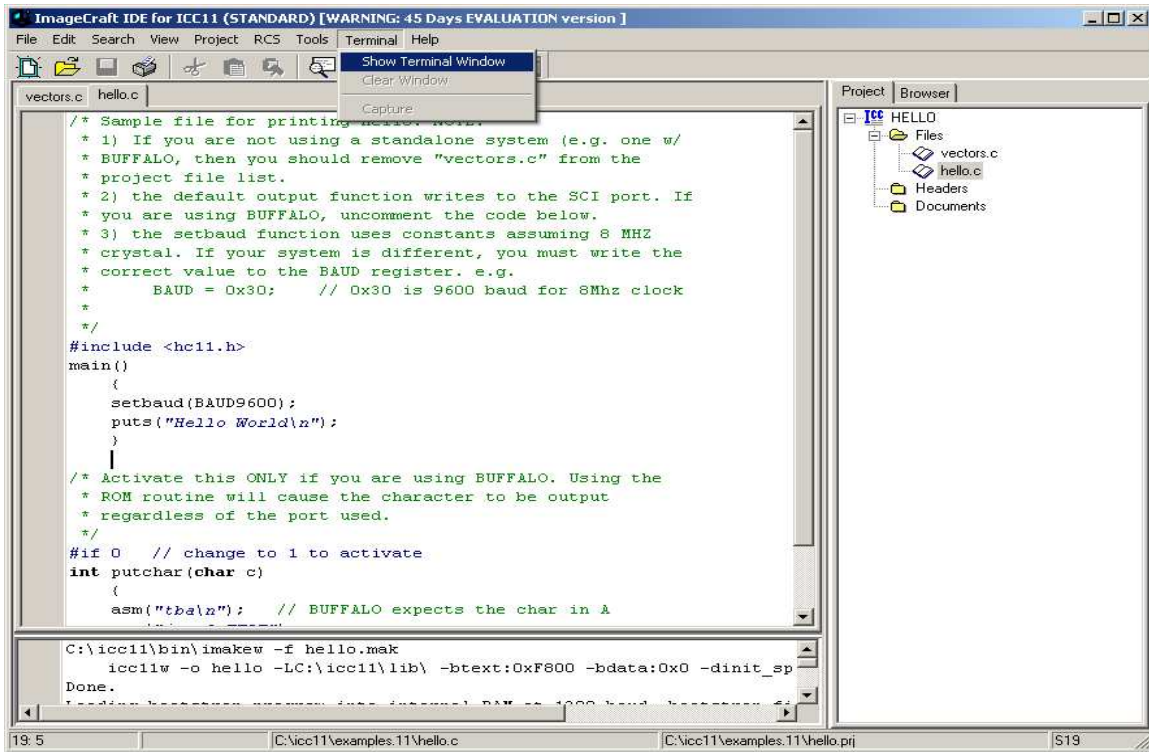


After a successful programming press the **OK** button.

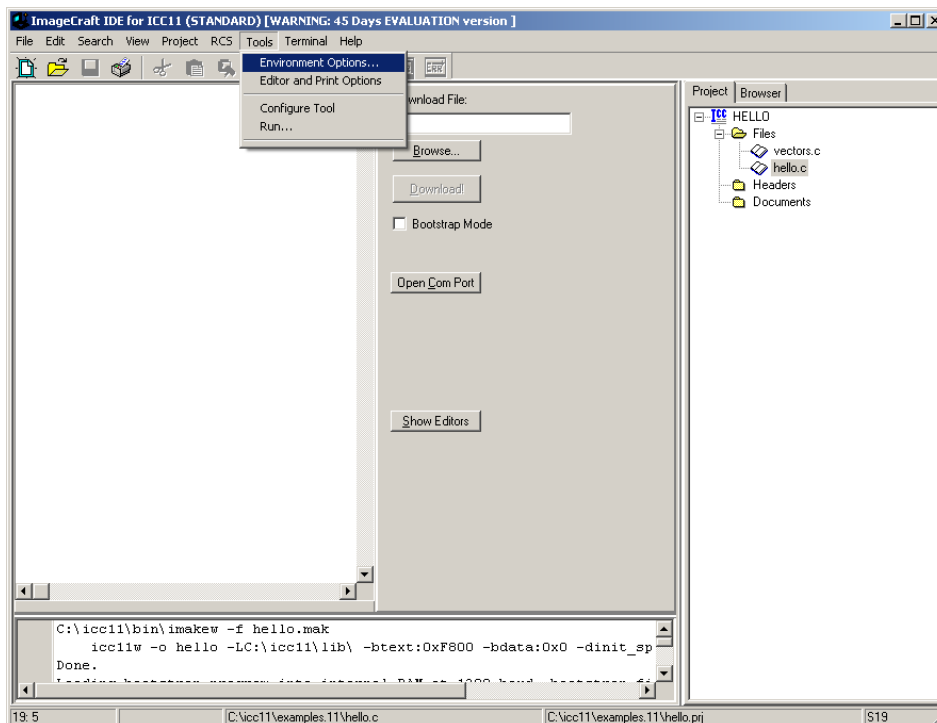


Close MicroLOAD so that it does not use the COM 1 port.

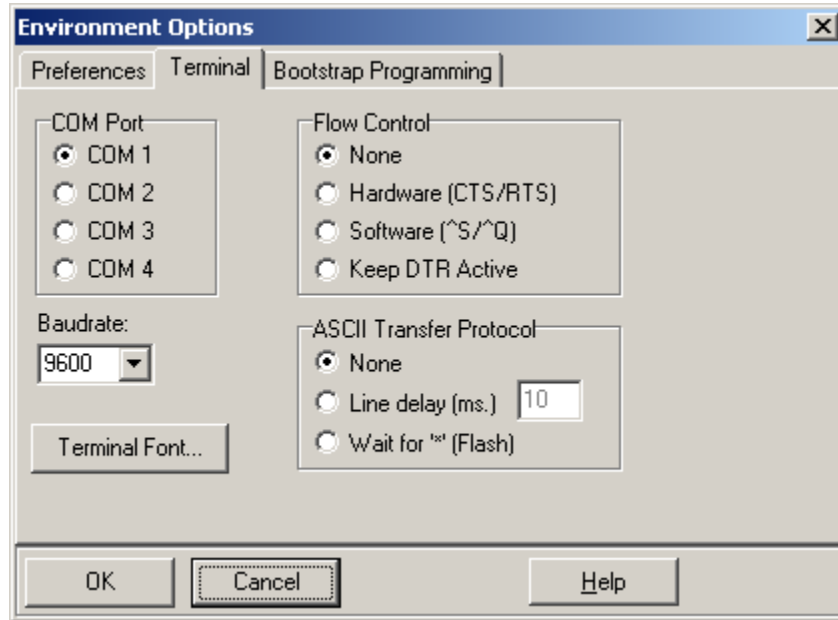
Click on ICC11 Terminal menu – Show Terminal Window as shown.



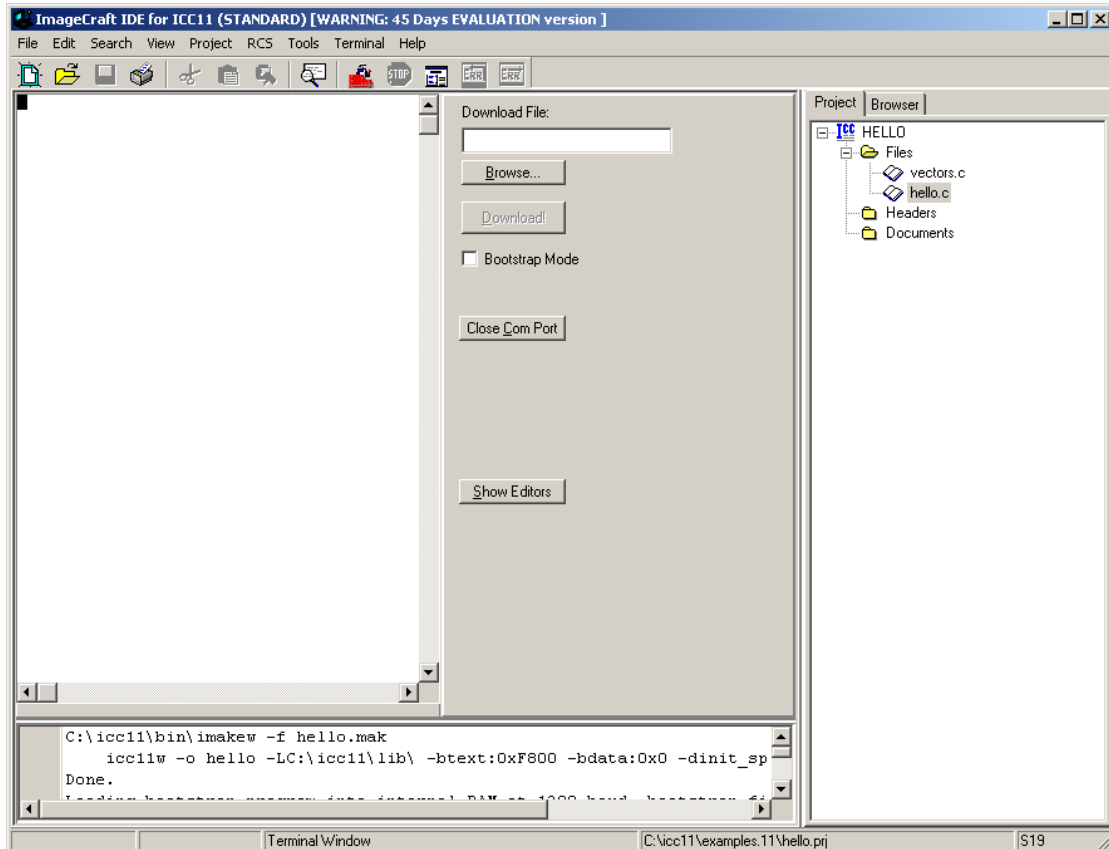
In this example COM1 is used. Click on Tools menu – Environment Options as shown



Set the terminal BAUD = 9600, Flow Control = none, ASCII Transfer Protocol = None then press the **OK** button.



In the middle of the ICC11 is the **Open Com Port** Button. Click to open COM 1. Note that the button will change to **Close Com Port**. COM 1 is now open to be used.



Slide the RUN/BOOT switch to RUN then press the RESET button. Once the RESET button is released the Hello World shows up.

