

QuickC IDE - Rhino [RKI-1550]



User Manual

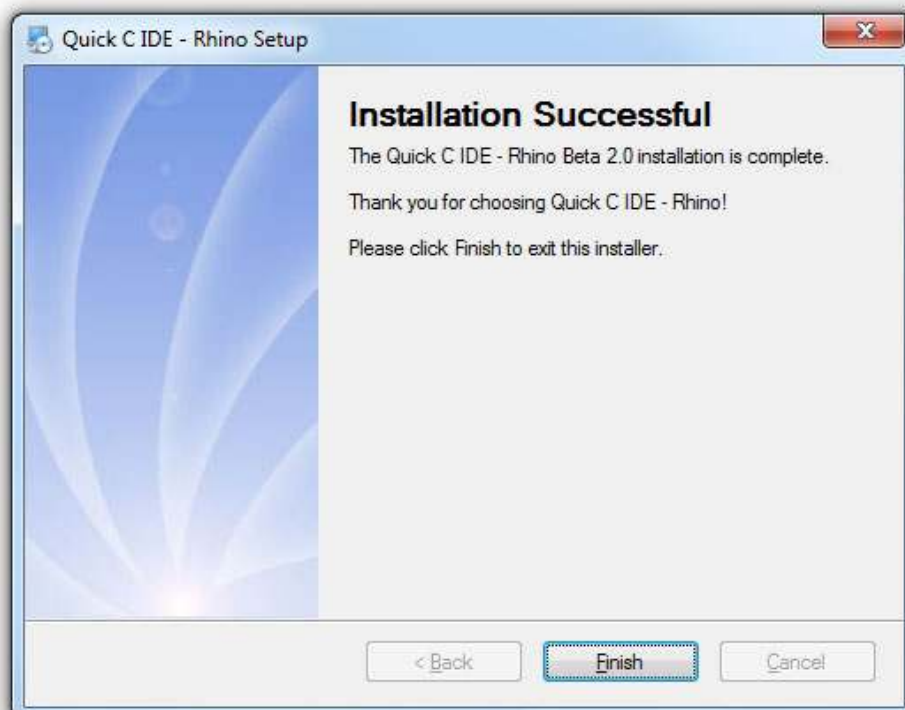
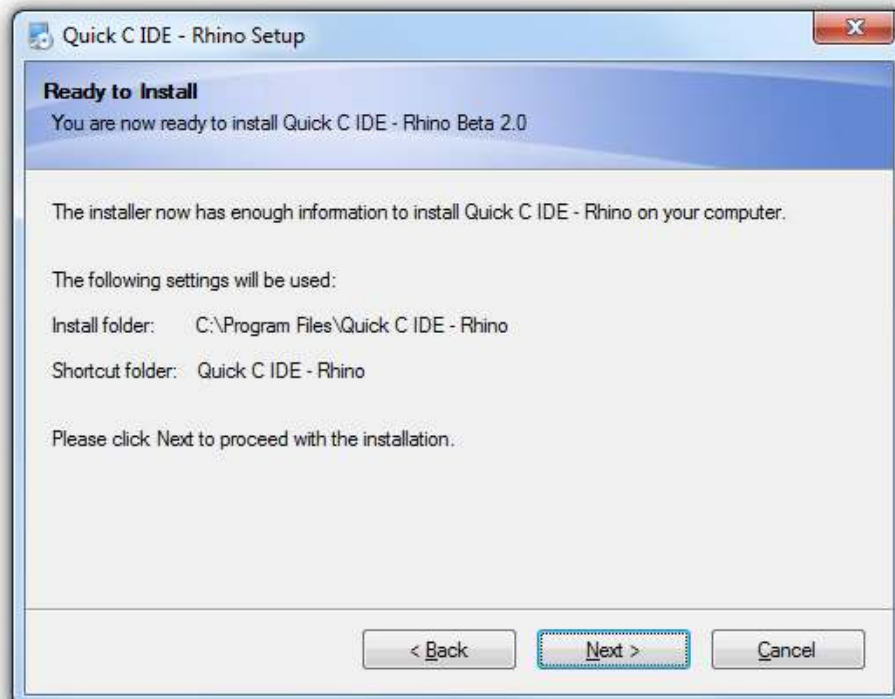
Robokits India

<http://www.robokits.co.in>
info@robokits.co.in

Quick C IDE - Rhino Installation

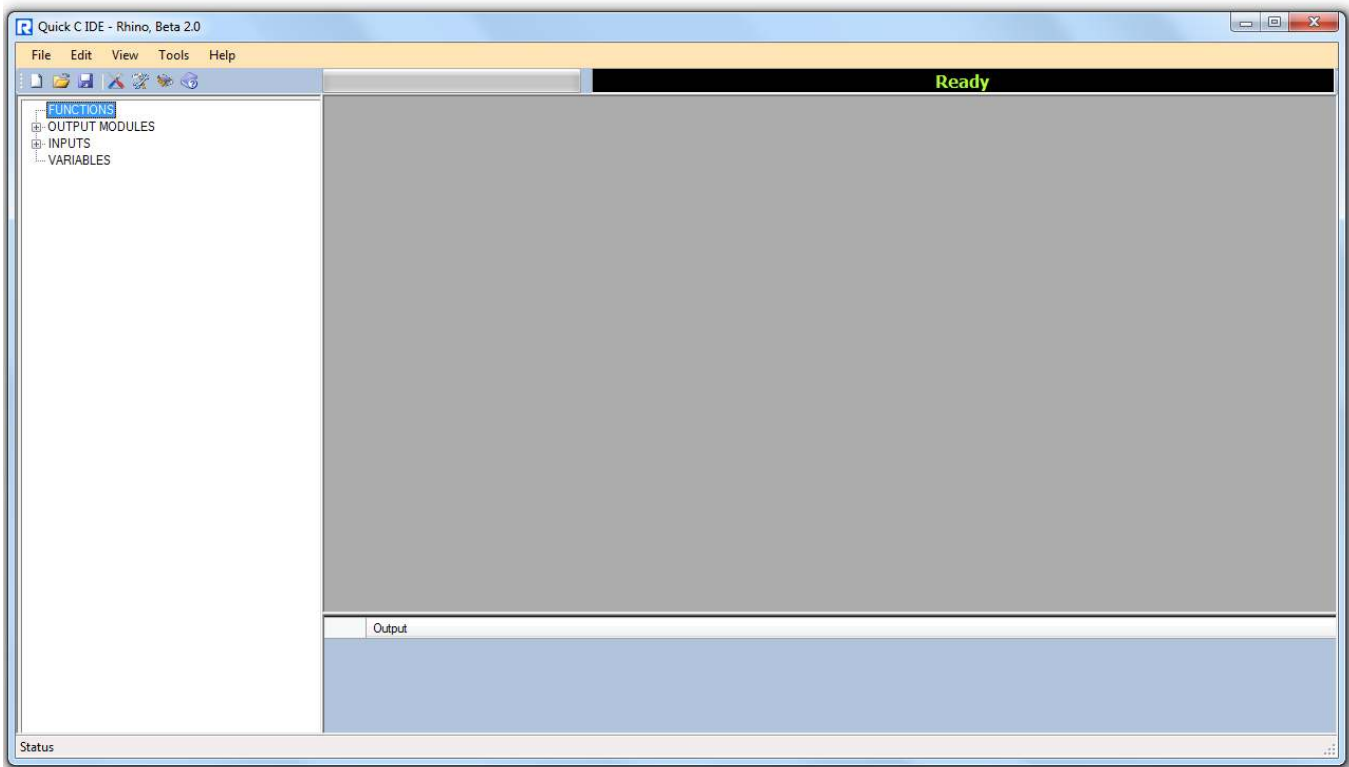
- **Make sure you have installed WINAVR before installing Rhino software.**
- **You can download WINAVR Software for free from**
<http://www.robokits.co.in/downloads/WinAVR-20100110-install.exe>
- **To install QuickC run setup from CD. You will see following wizard once you run it.**



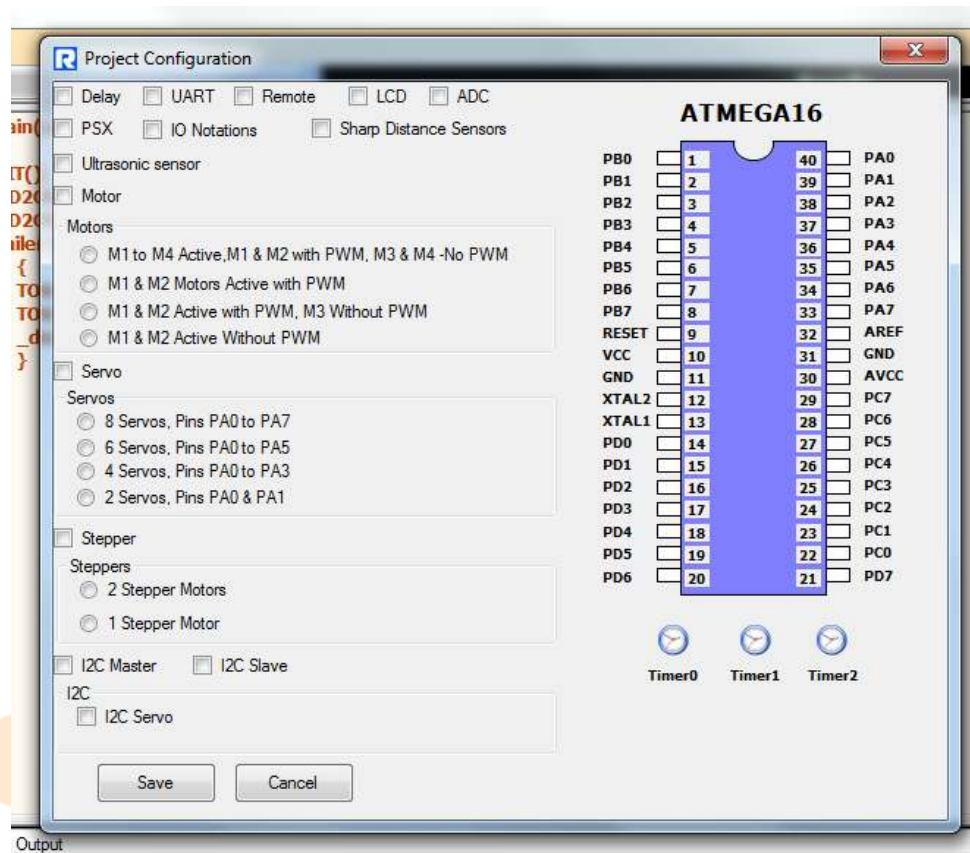


Quick C IDE - Rhino Introduction

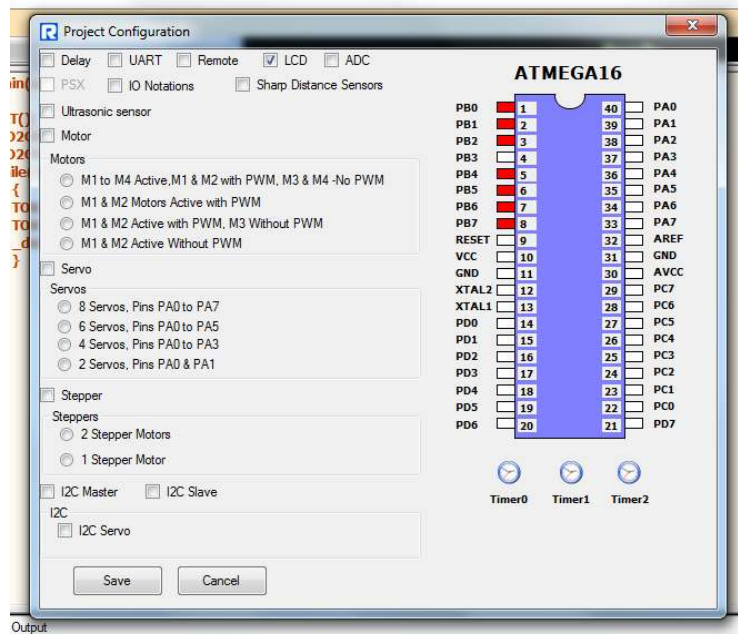
- QuickC IDE - Rhino is easy to use software with multiple inbuilt libraries specifically for rhino board.
- The base compiler used for this IDE is winAVR which is a free source compiler.
- All functionality of winAVR software is already built in to this IDE with extra libraries specifically for Rhino board.
- Check QuickC IDE – Rhino Library reference file from <http://www.robokits.co.in/downloads/quickclibraryref.pdf>.
- Run exe file from startup menu or from desktop shortcut.
- Following screen will be shown up.
- In screen there is a Menu bar on the top.
- Below menu bar you will find shortcuts to few basic functionality just move cursor on top of it to see details.
- On right side of shortcut bar you will find progress bar and status bar which normally shows text "Ready".



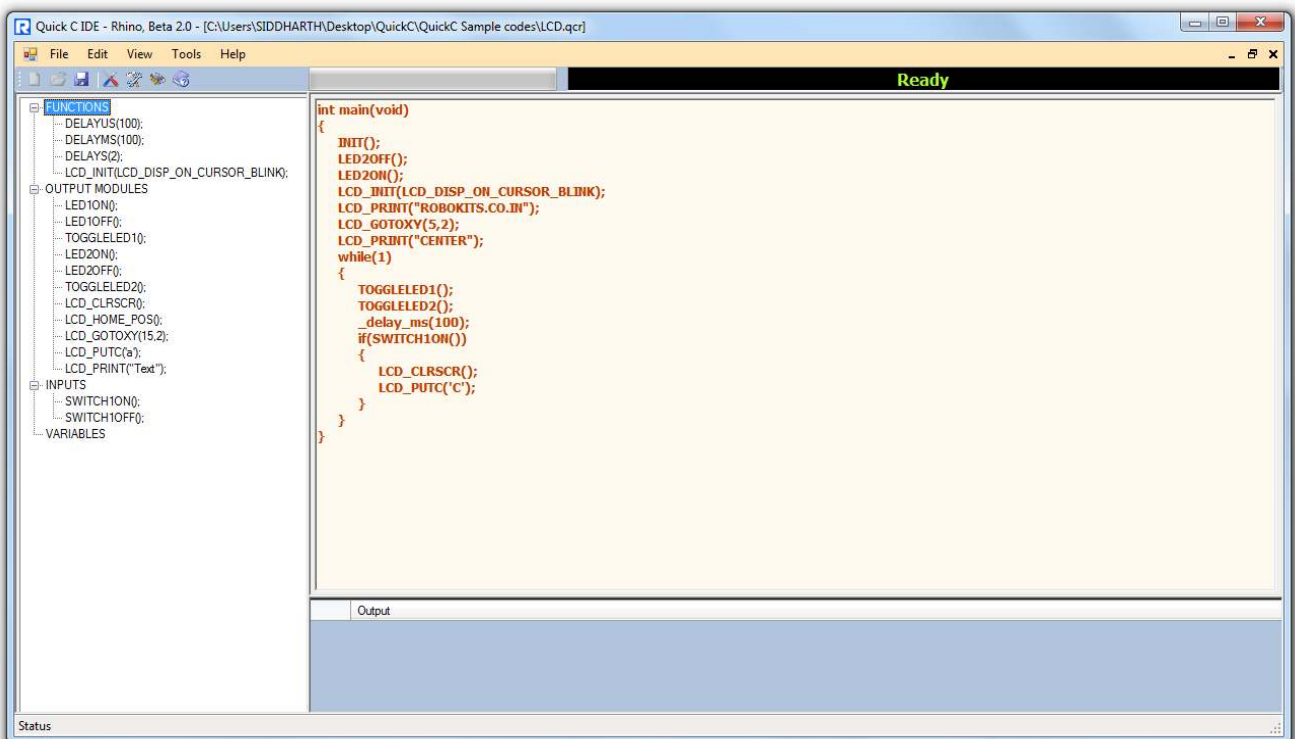
- To create a new project click on File->New project or click appropriate shortcut for the same.
- Here you will see Project Configuration wizard as below.



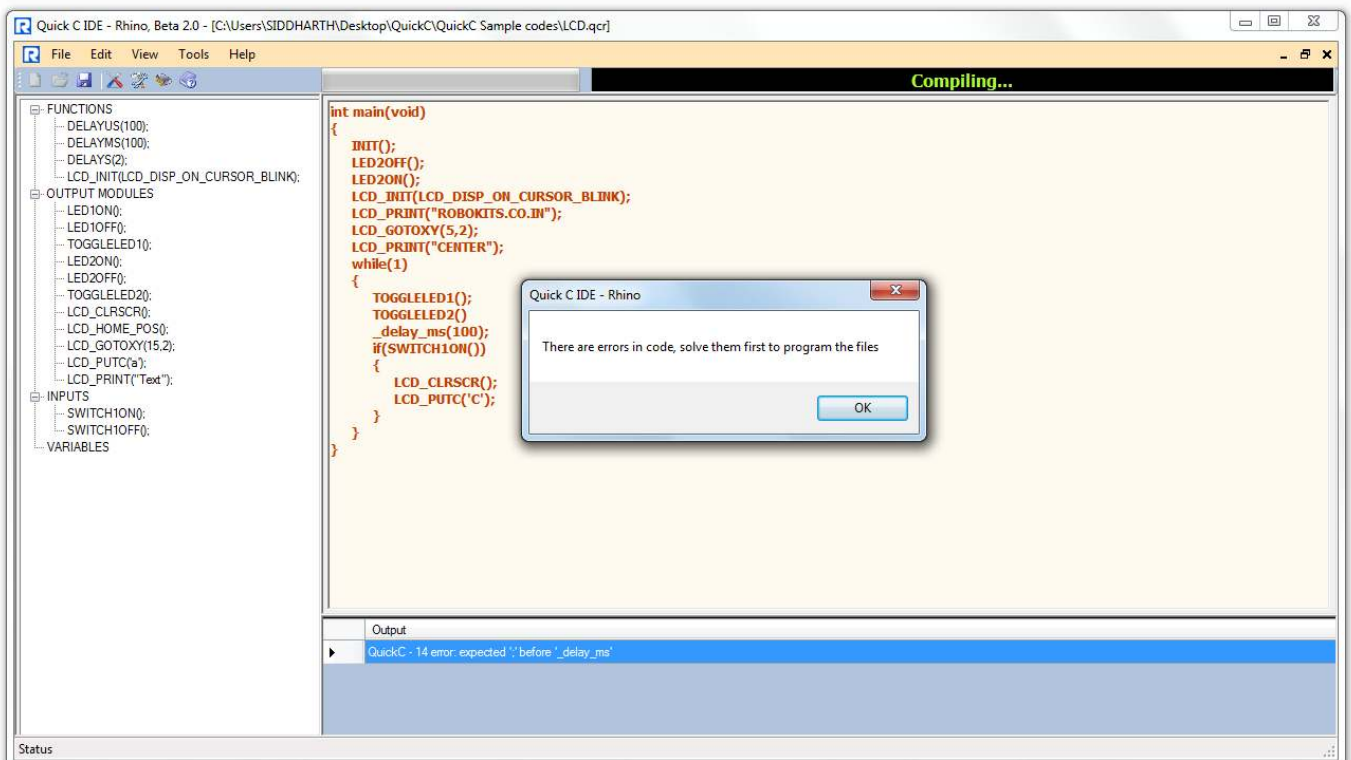
- On left side of the wizard you will find all built in library include options and on right side you will find ATMEGA16 image with pinouts and used resources.
- You can include whatever libraries you want. You will see ATMEGA16 pins/timers highlighted once you select any library and few libraries will be disabled as you try include libraries which shares common resources.
- E.g. check following image where LCD library is used and hence PSX library is disabled.



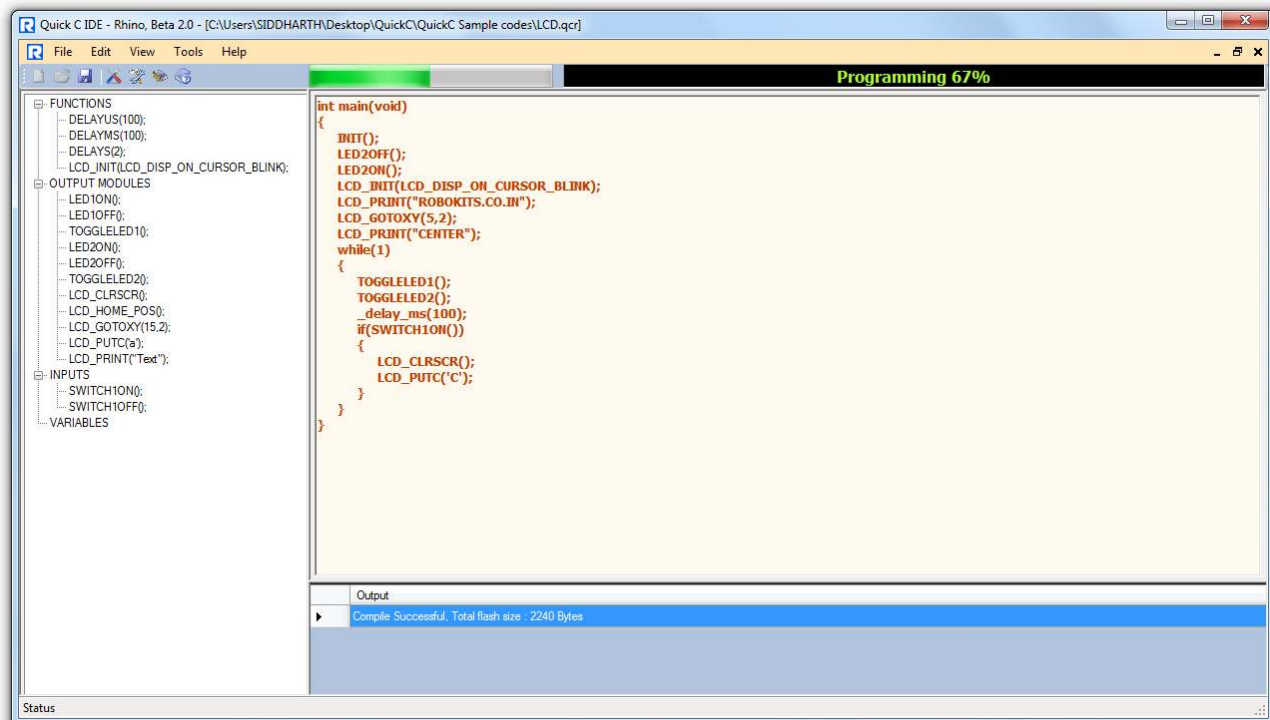
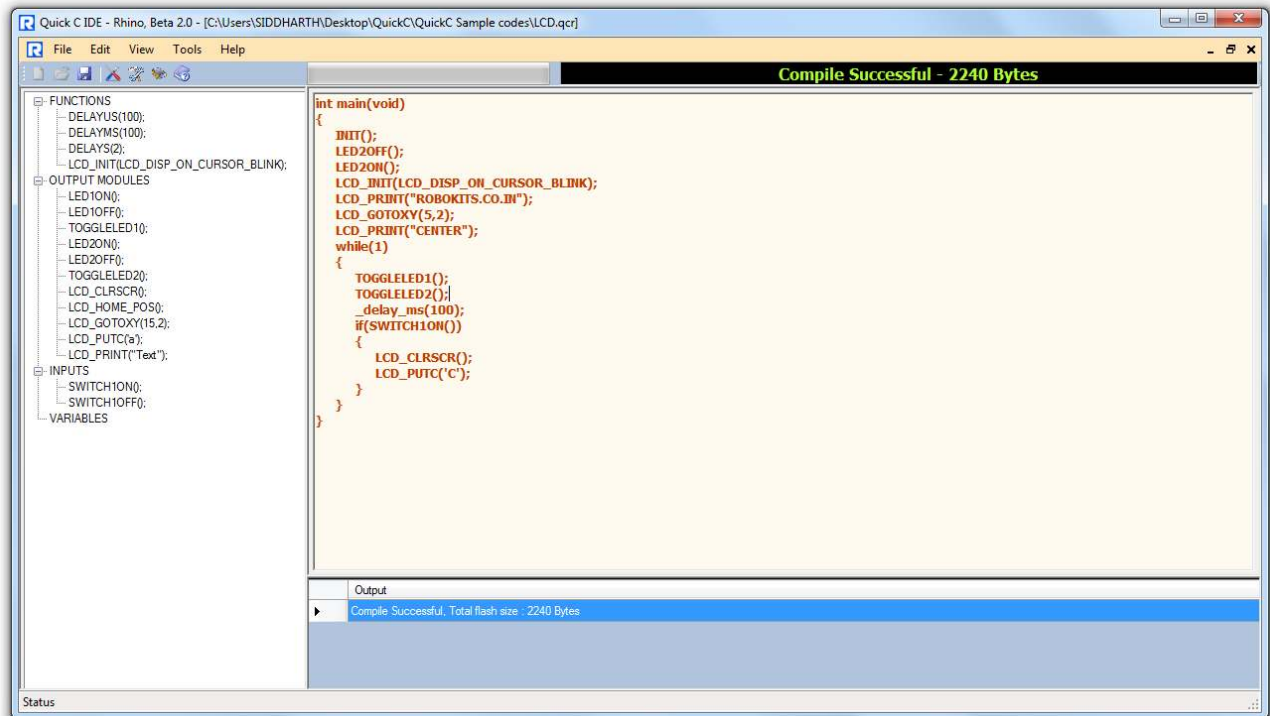
- Select all libraries you need for a project and click save.



- You will see above window with all functions available for all libraries you have selected on left side menu.
- You can right code for rhino board in the text file on right side.
- Code format should be just like C language.
- Generally a basic file will always be populated when you create a new project.
- You can simply add functions by clicking them from left menu and they will be added to main code wherever your cursor is present.
- There are a few sample codes available on CD which will help you understand the IDE in proper way.
- Also check application notes for this board from our website www.robokits.co.in.
- Once you are ready with the code just click Tools->Compile(F7) or you can use a shortcut for the same.
- If there are any errors you will see following screen and you will see all errors in bottom output window section with the line number.
- Click on the error and it will move the cursor to the error line or below that.



- Solve all the errors if there are any and your program will be compiled successfully and then click Tools->Program(F4) to program the Rhino board.
- Make sure your board is connected properly to the USB cable and drivers are installed properly. Check http://robokits.co.in/resources/?page_id=113 for driver installation procedure.





- If everything is fine the board will be programmed and you will get a "Program Complete" message on the status bar.
- Similarly you can write all kind of codes in C very quickly with all functions built in and it will be a very simple way to start with the Rhino robot control board.
- The IDE is made for simple and even advance codes and you can make the board work anyway you want it to be.
- Refer <C:\WinAVR-20100110\doc\avr-libc\avr-libc-user-manual\modules.html> for details of built in libraries of WINAVR. Also this libraries can be used without any extra efforts with this IDE.

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