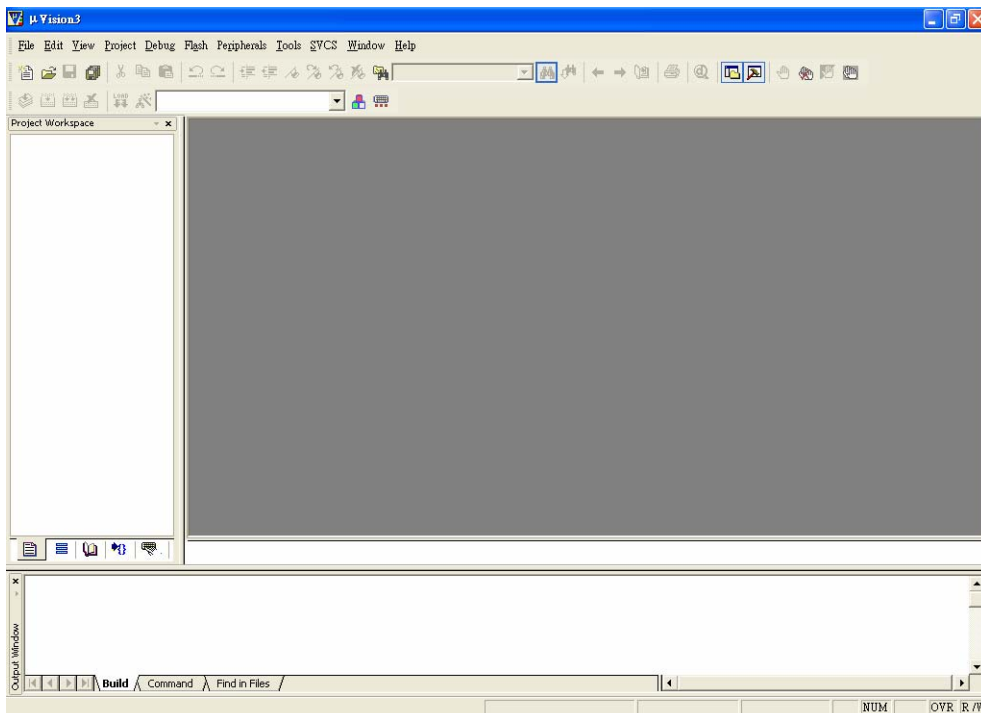
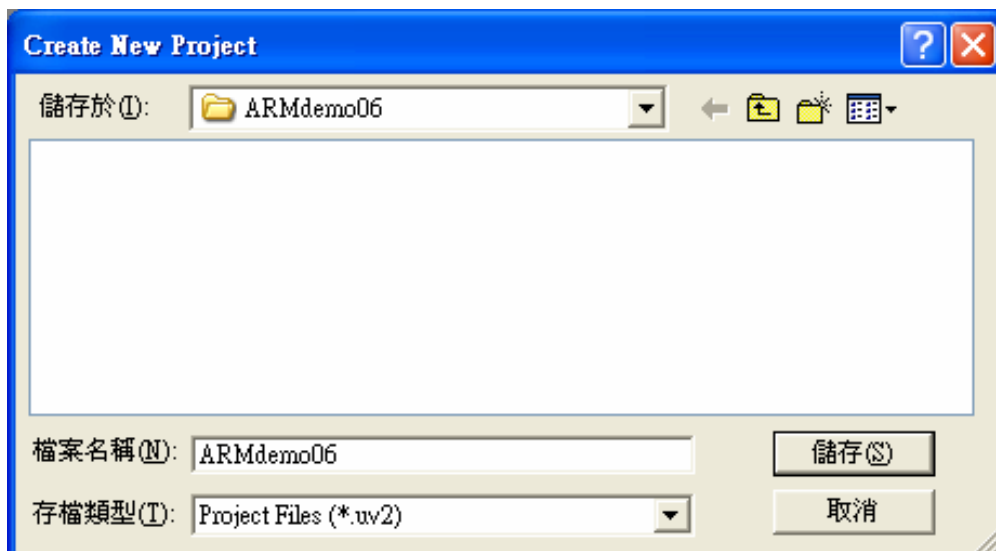


CUHK ARM06 Board User Guide

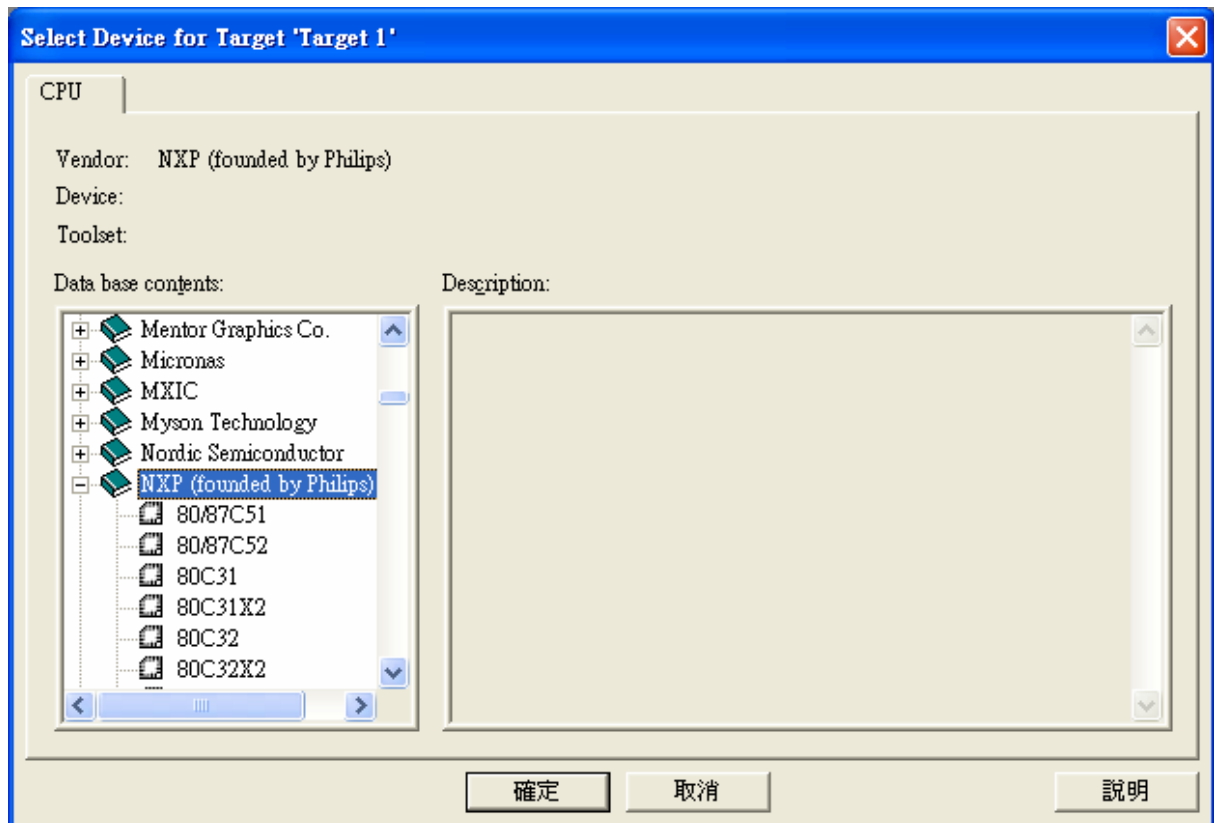
1. Setup RealView Microcontroller Development Kit V3.03a (Keil uVision3) (Evaluation version) by running the setup program **mdk303a.exe** from the disc.
2. Setup Philips Flash Utility by running the **Philips Flash Utility Installation.exe** program from the disc.
3. Run Keil uVisinon3 from program list.



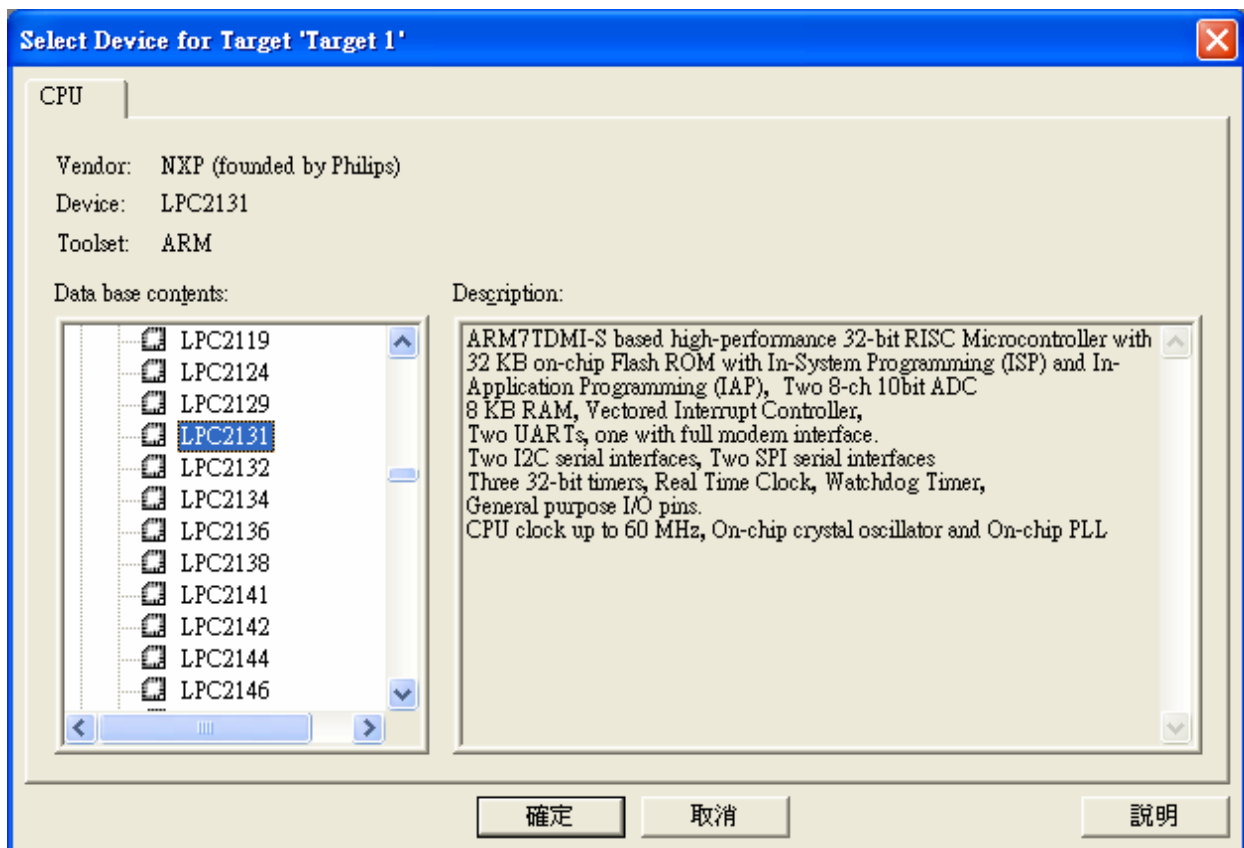
4. Create New Project from Project menu.



5. Select device vendor NXP for our project.

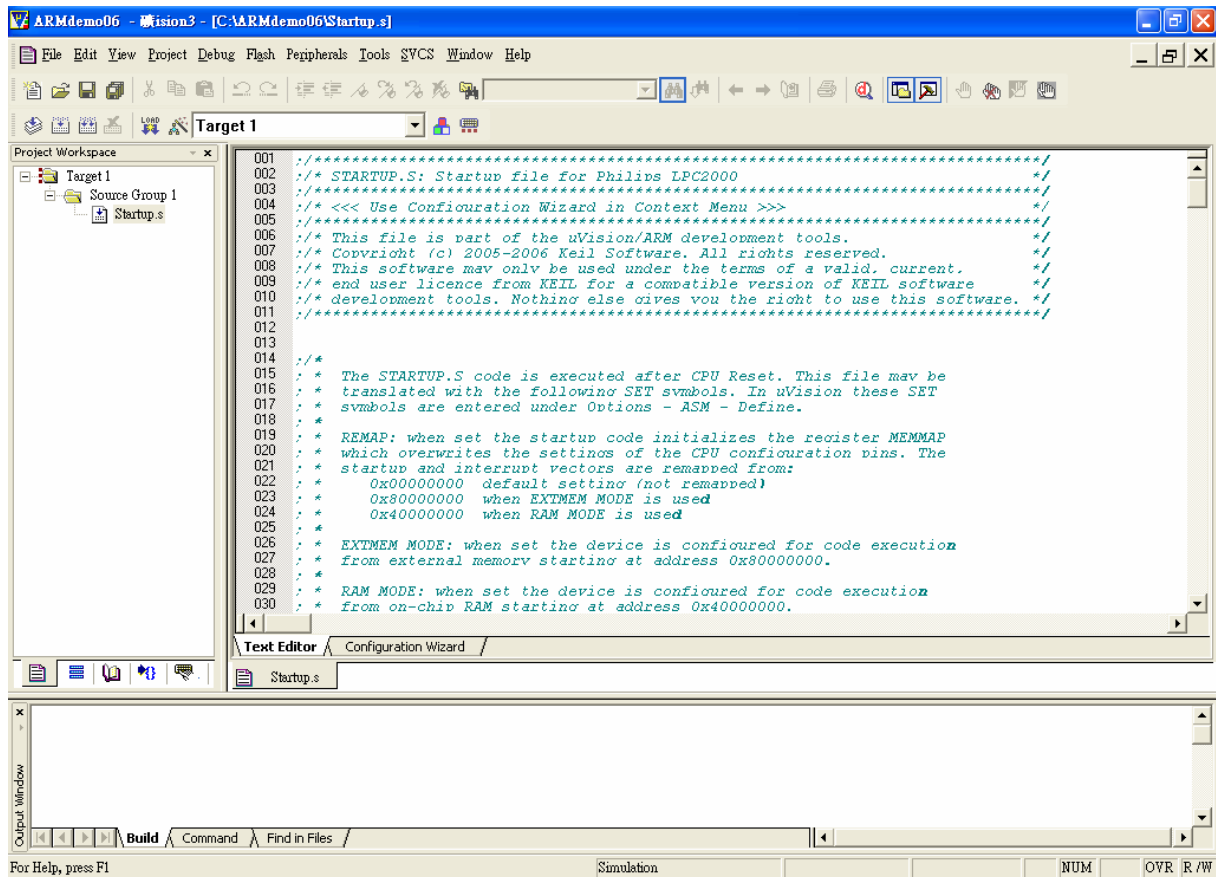


- Then select device part number LPC2131 for our project and press OK to copy startup code to project folder.

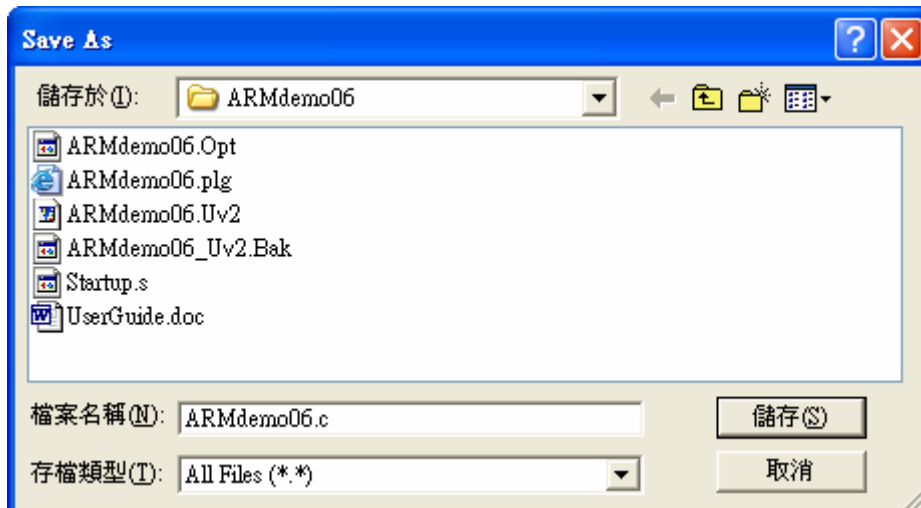


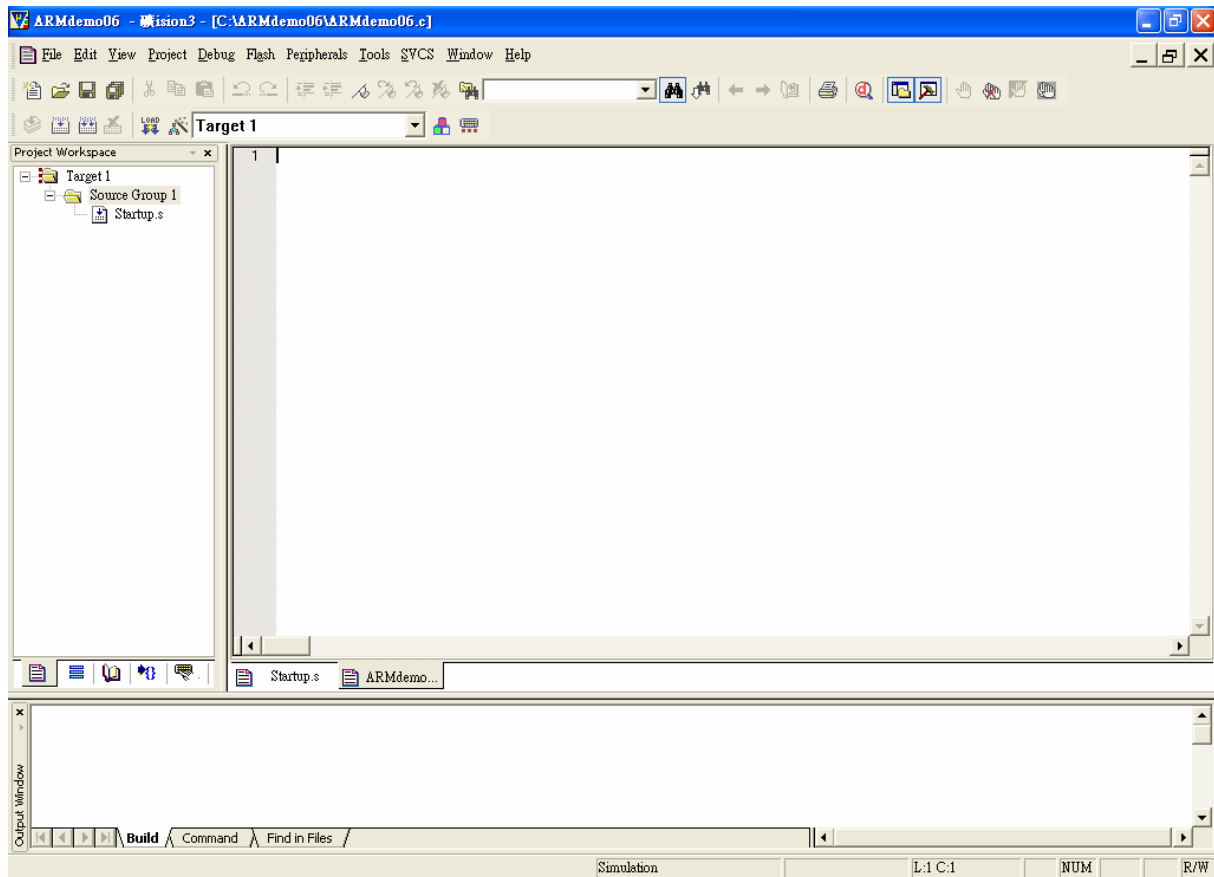


Now, your project folder should be like this. The startup code for LPC2131 should be created automatically

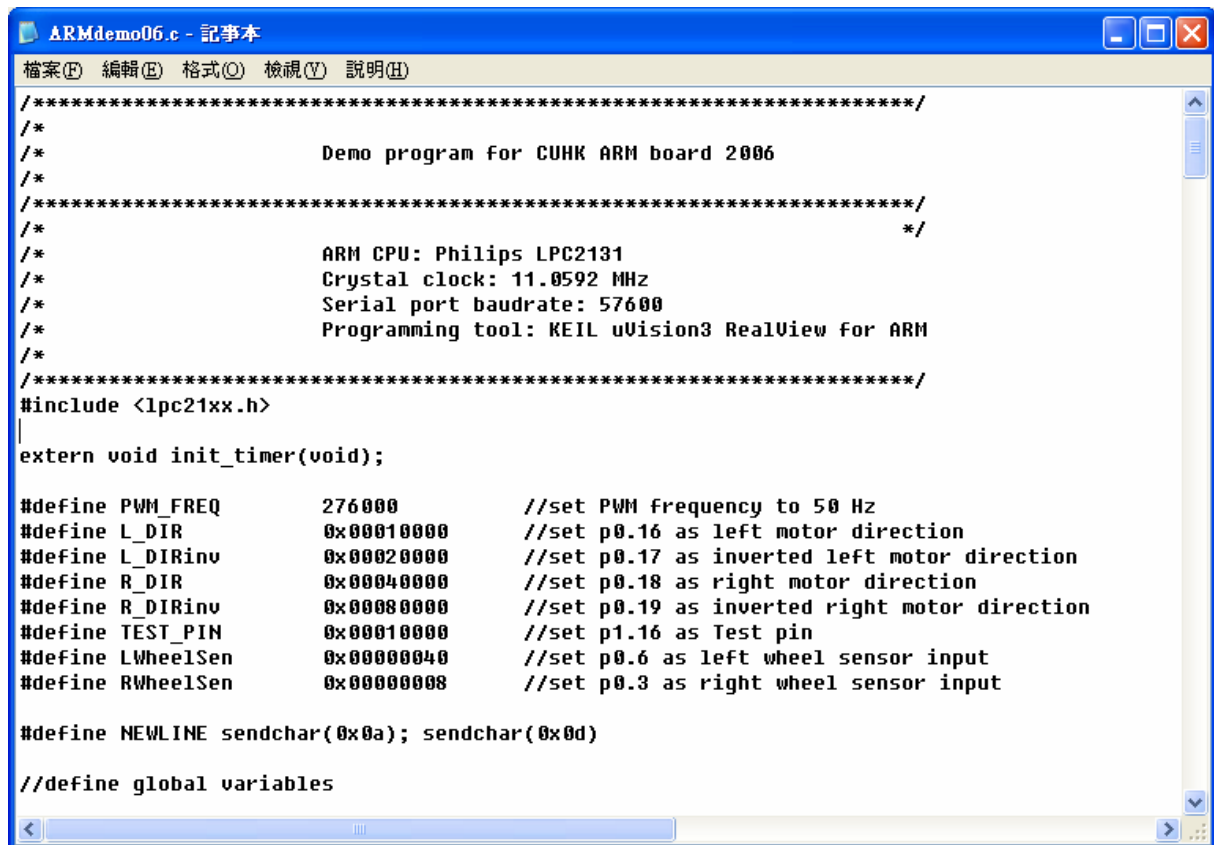


7. Create new blank ARMdemo06.c file from File menu.

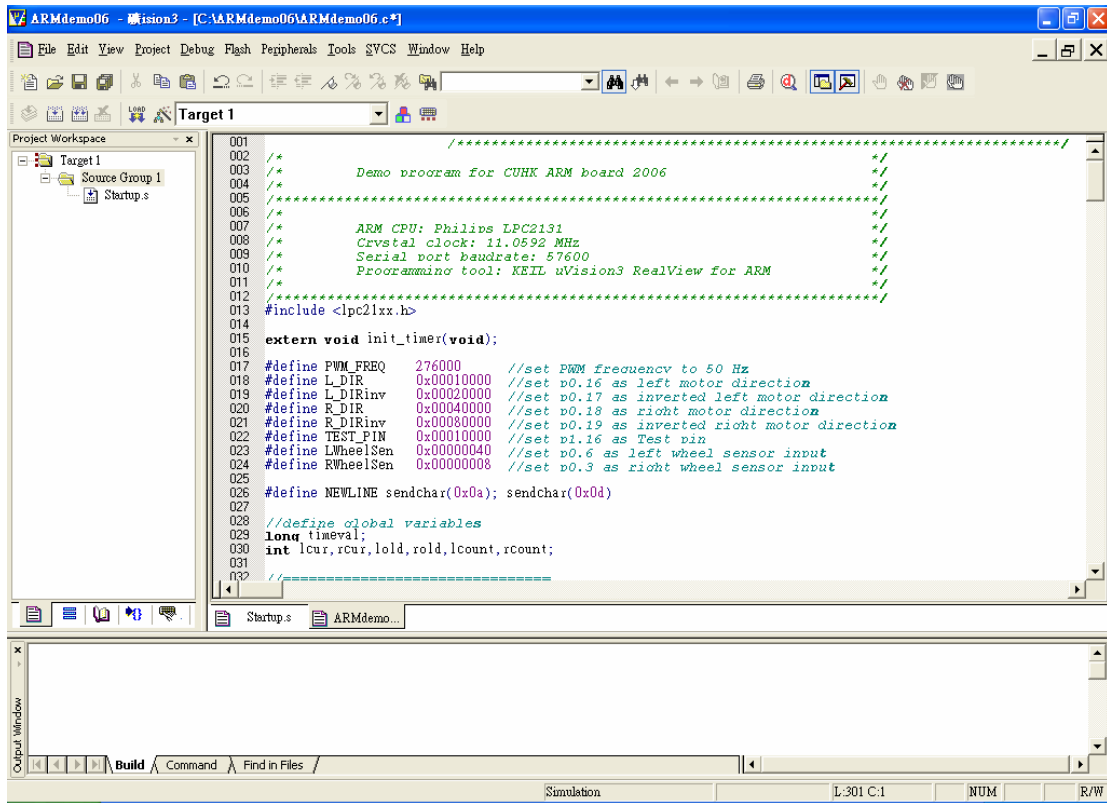




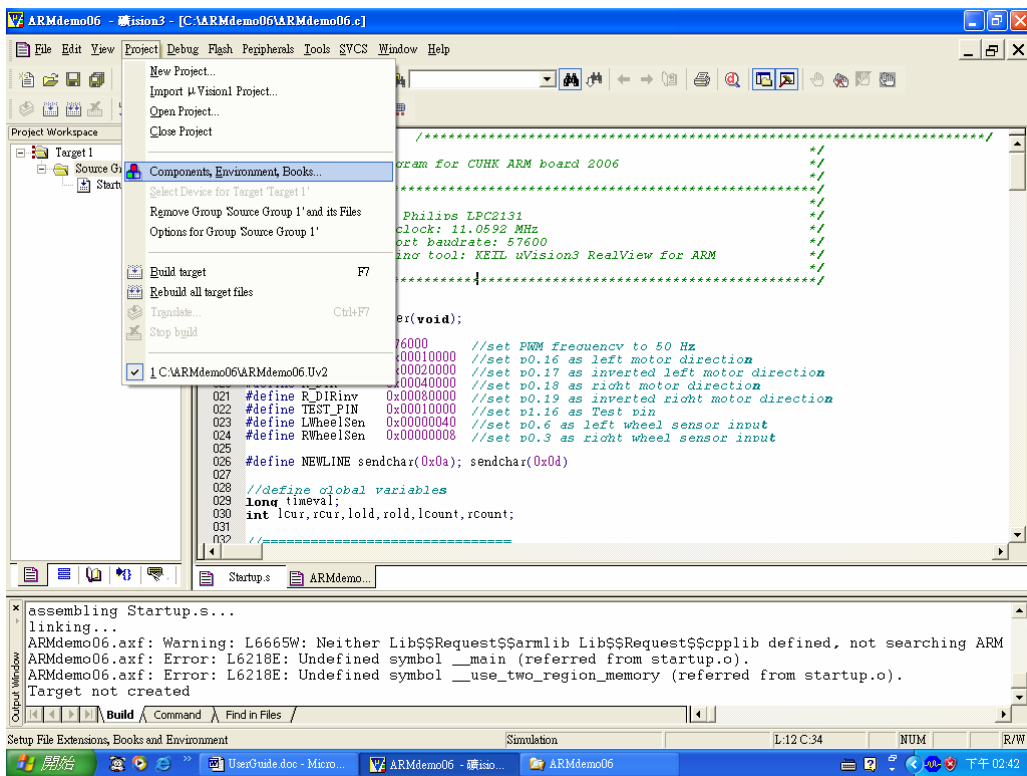
8. Open the **ARMdemo06.c** file with notepad from ARMdemo06 folder on disc.

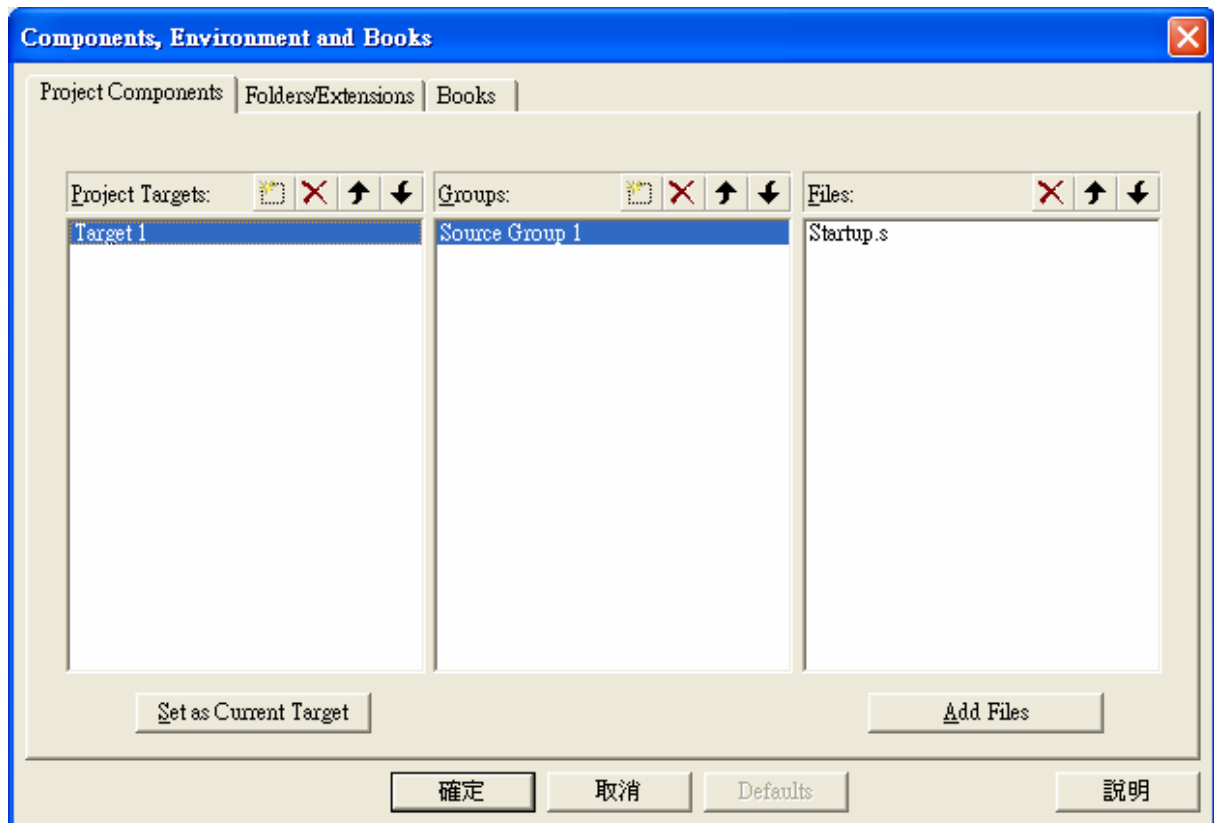


9. Copy the content of ARMdemo06.c on notepad to the blank ARMdemo06.c on uVision3 and save the file.

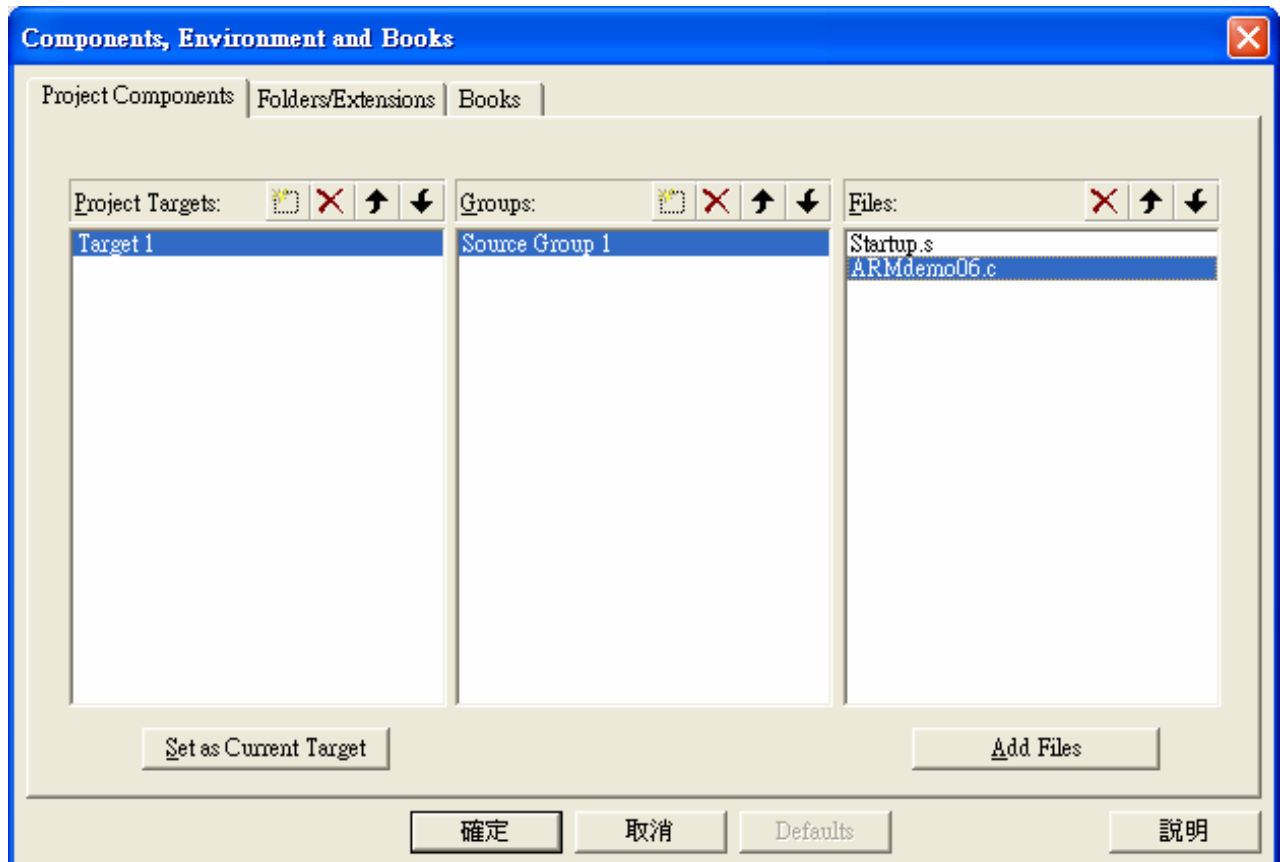


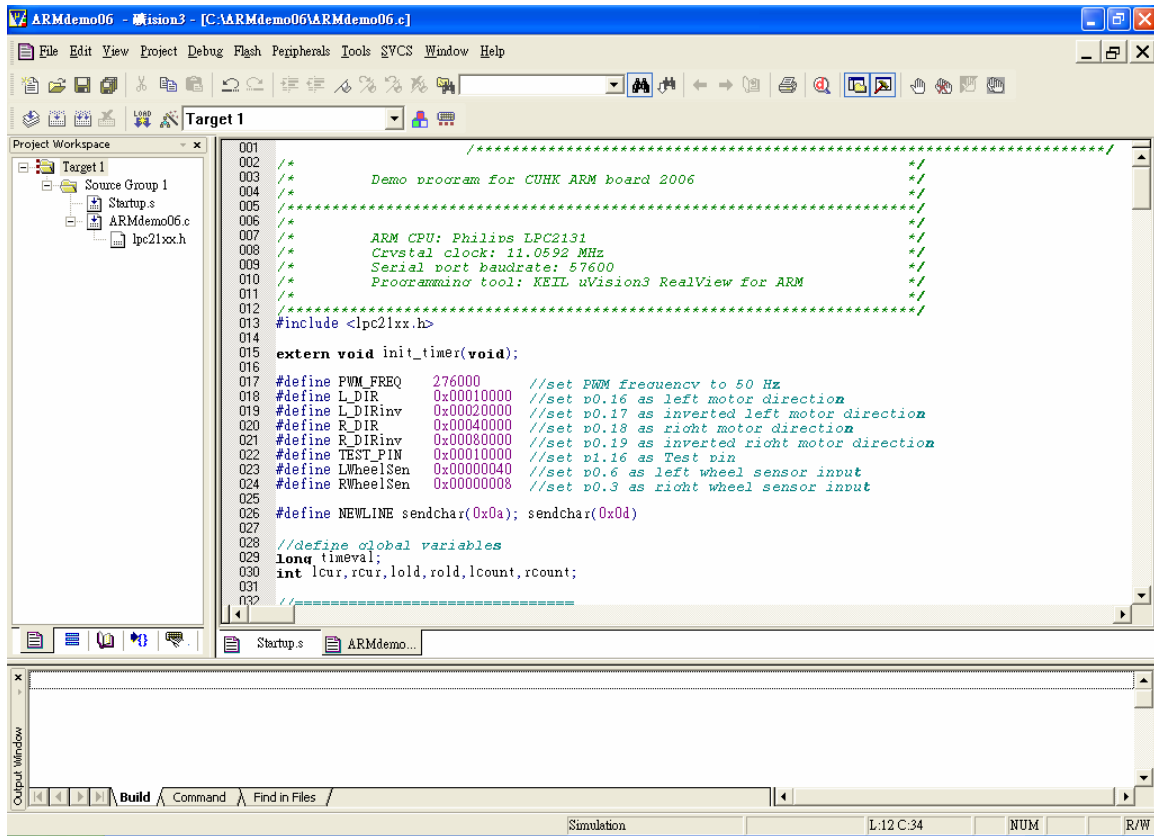
10. Open Components, Environment, Books... from Project menu.



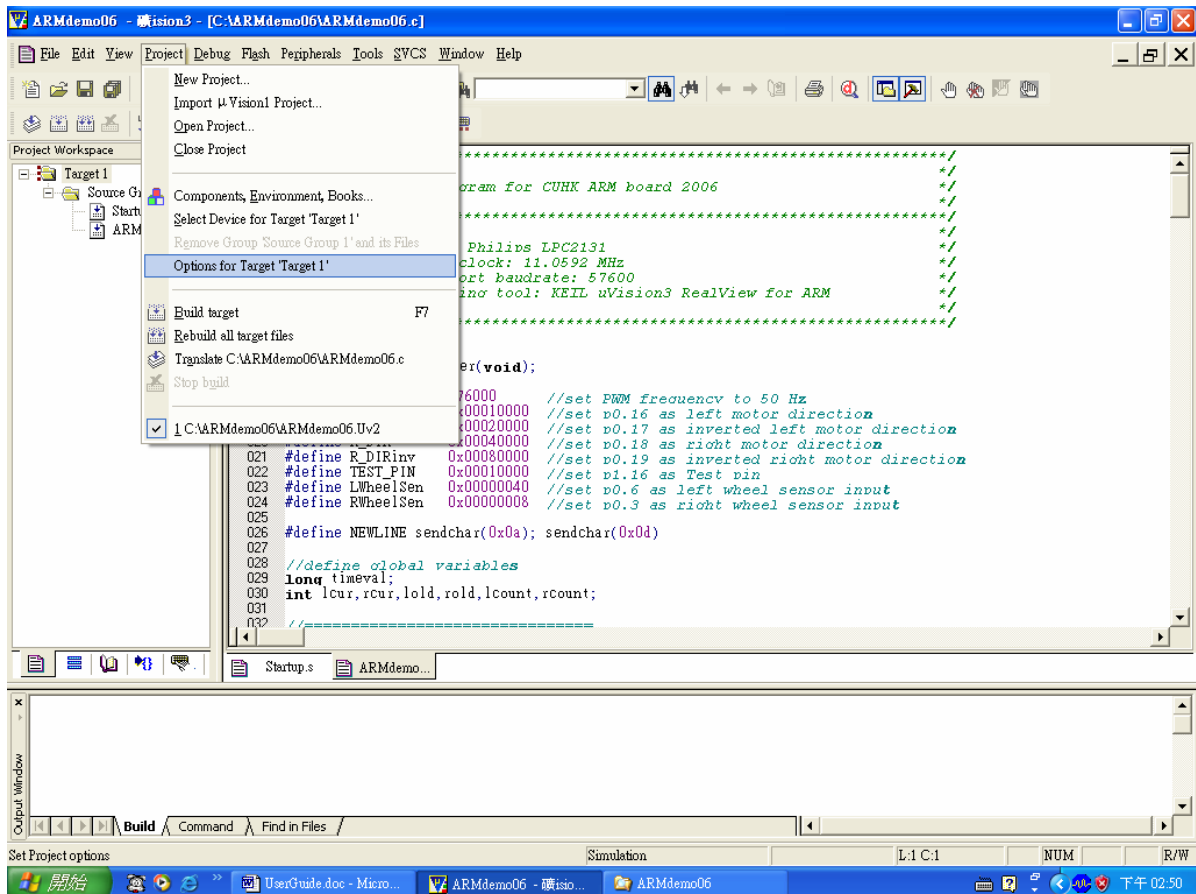


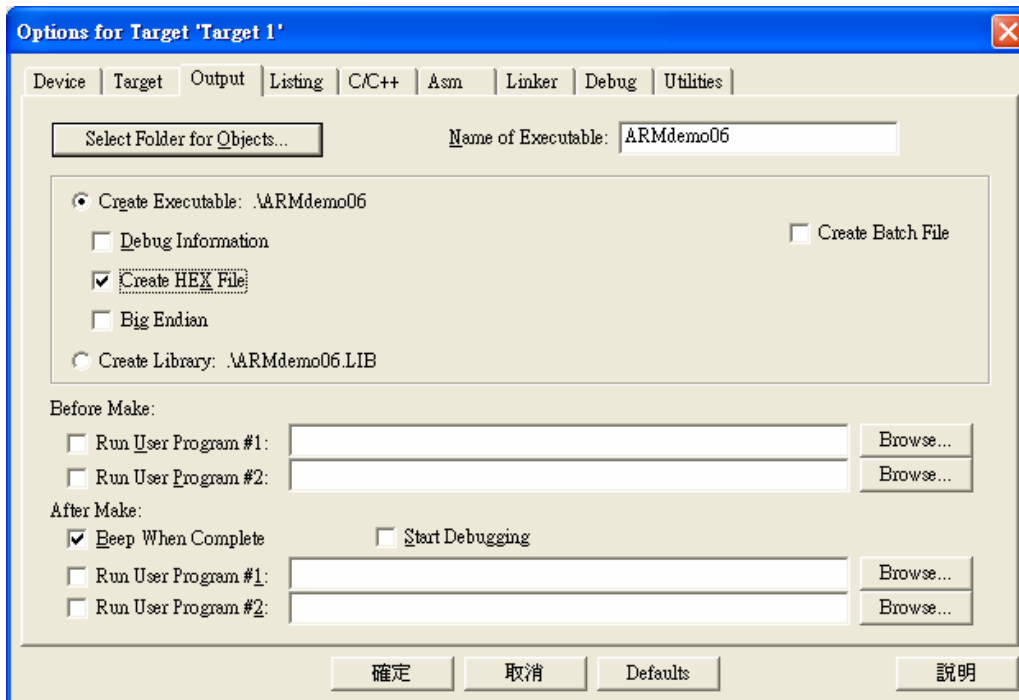
11. Add the ARMdemo06.c to the project.



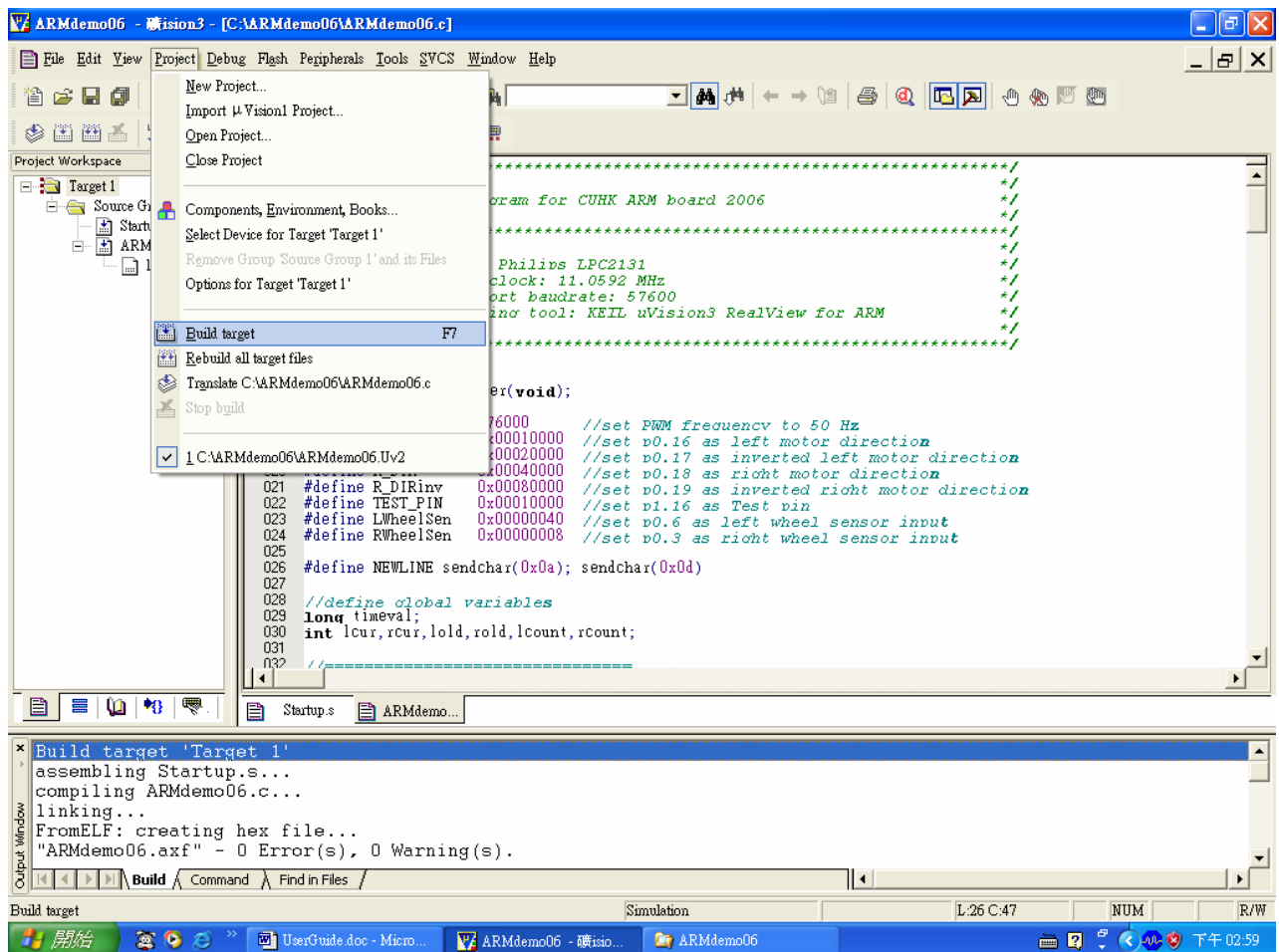


12. Open Option for Target 'Target1' and select Output tab. Check the Create HEX file box.

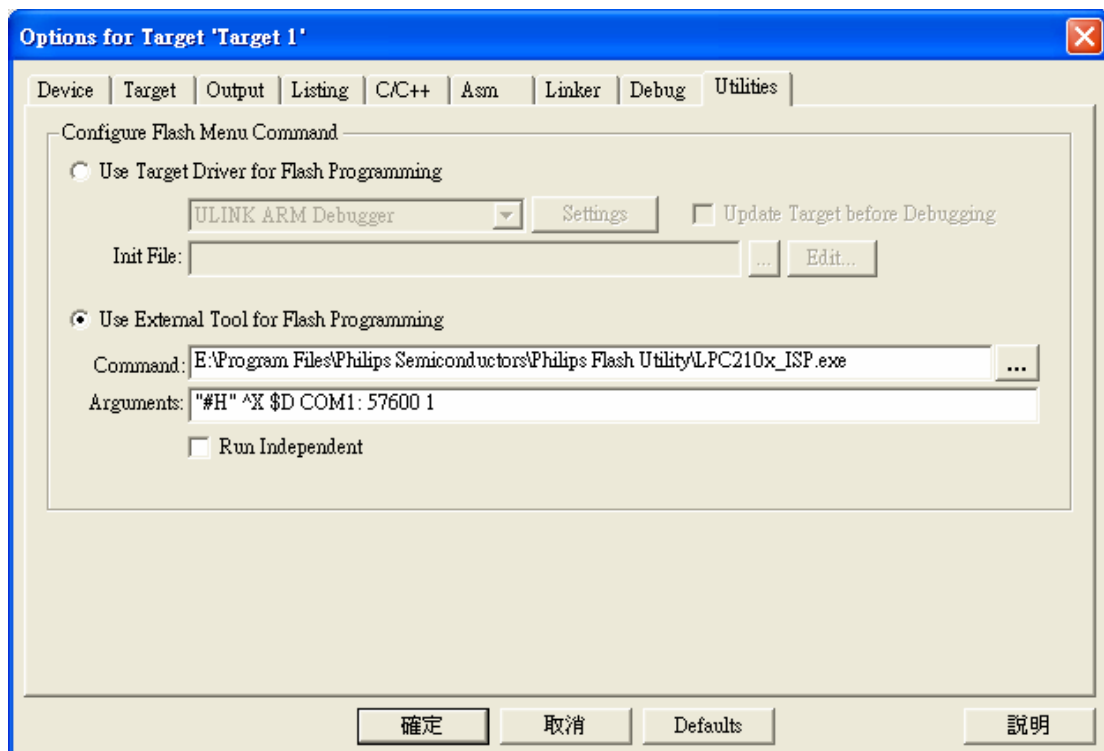
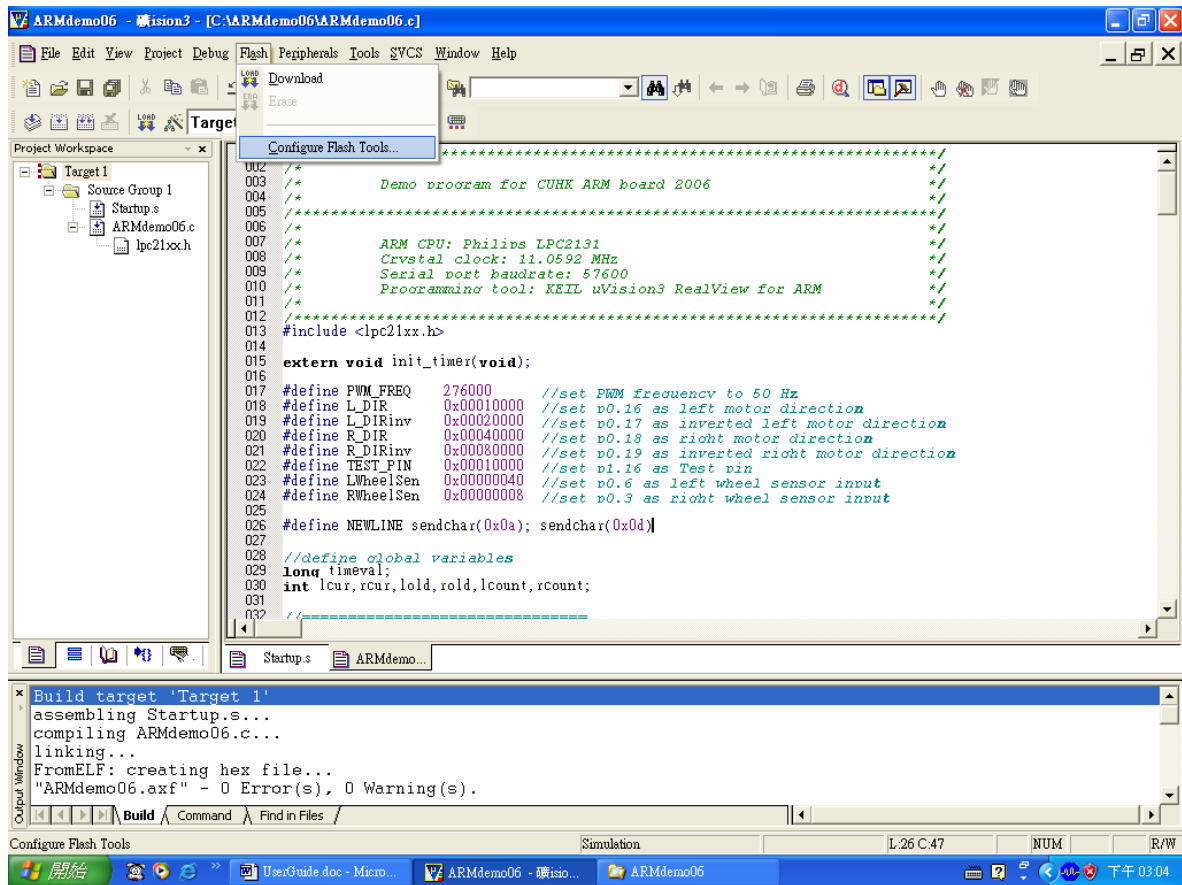




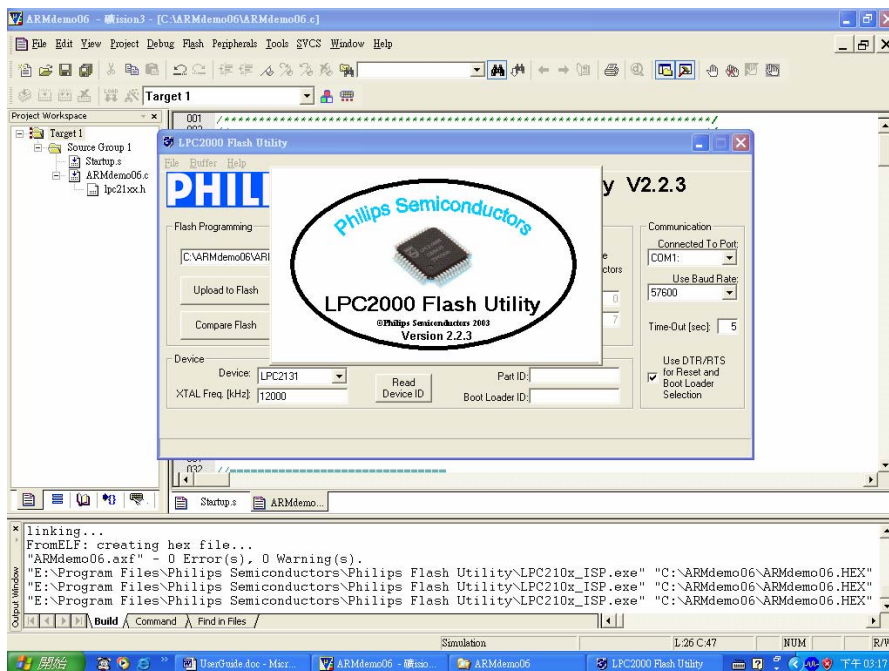
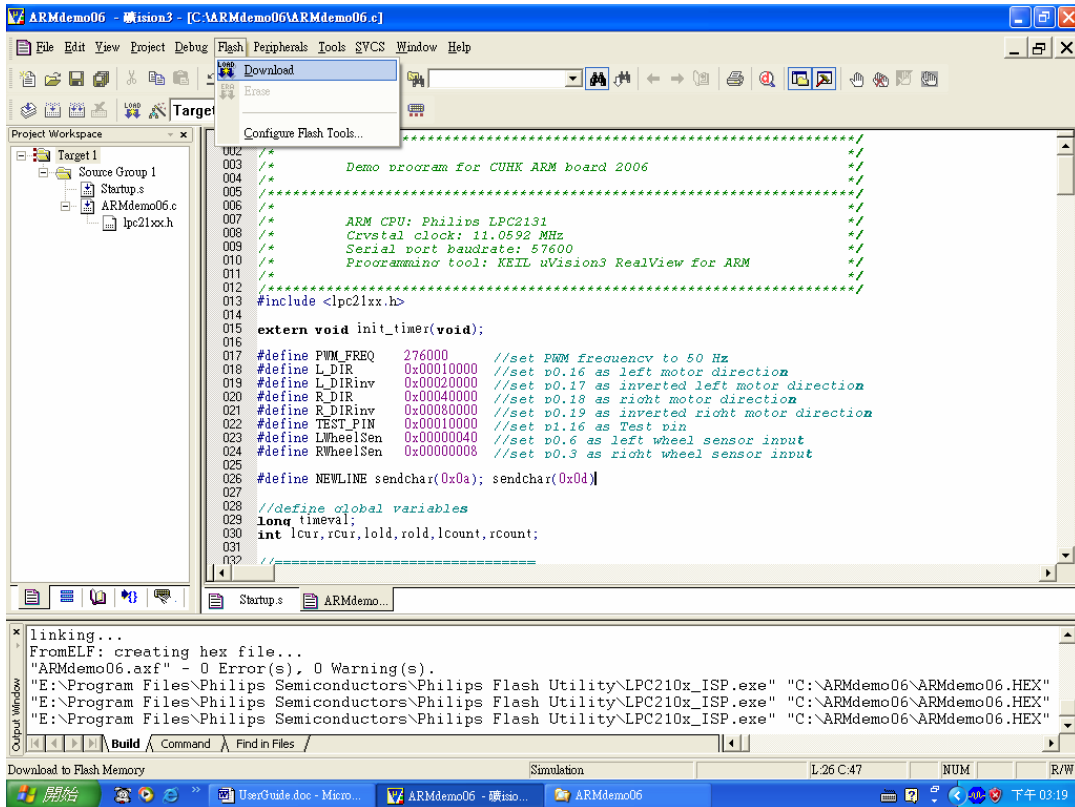
13. Build the HEX file by pressing **F7** or by open the **Build target** from Project menu.



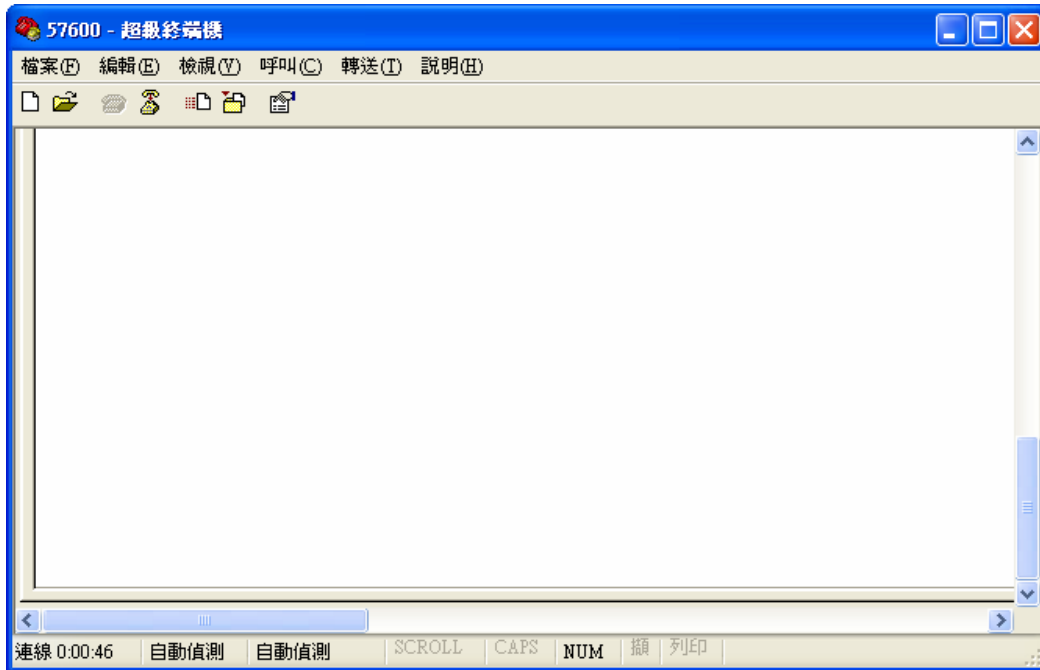
14. Open **Configure Flash Tools...** from Flash menu. Then set the Command point to Philips Flash Utility program **LPC210X_ISP.exe** and set the BAUD rate of COM1 in Arguments box to **57600**.



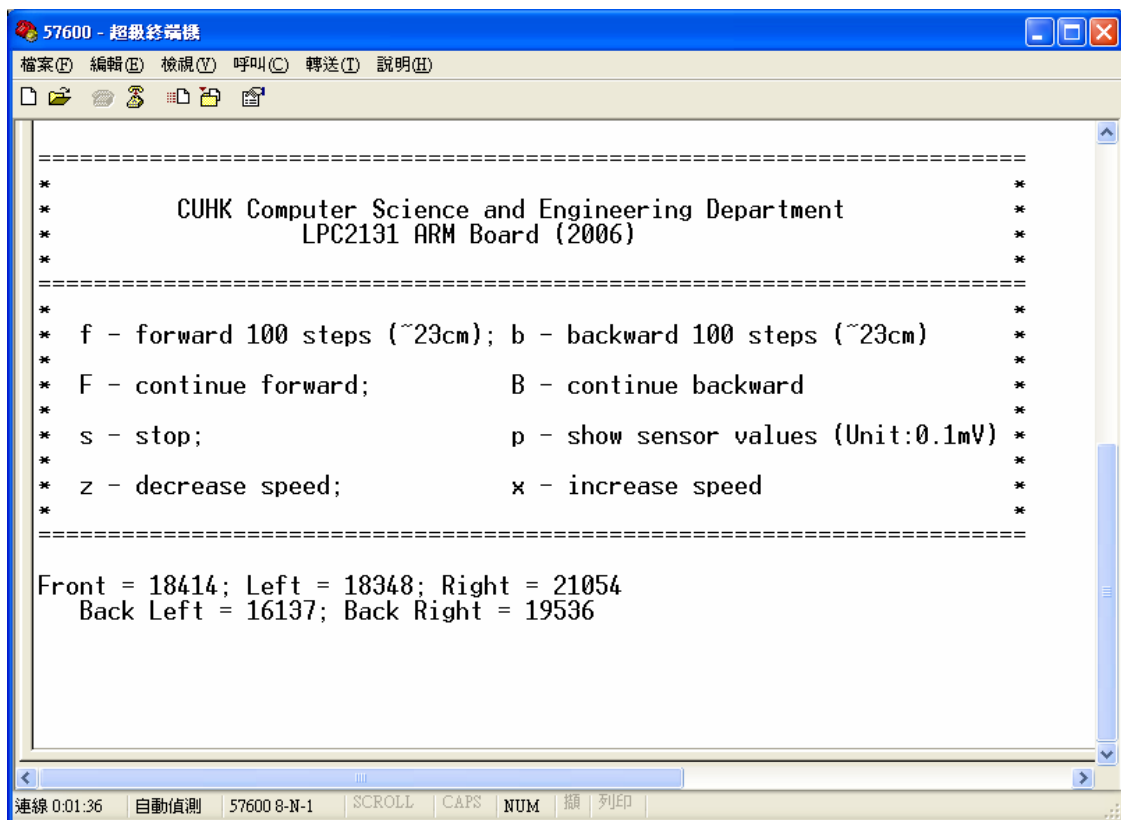
- Connect the ARM06 board to power supply and connect to COM1 port. Set the **jumper** of P0.14 and turn on the power supply.
- Download the HEX file by opening the **Download** from Flash menu. The Flash Utility will start automatically and the HEX file will be downloaded to the LPC2131 MCU.



17. Open the Hyper Terminal and set the baud rate to 57600.



18. Open the **jumper** on the ARM06 board and press the **Reset** switch the demo program will be executed on the ARM06 board.



END