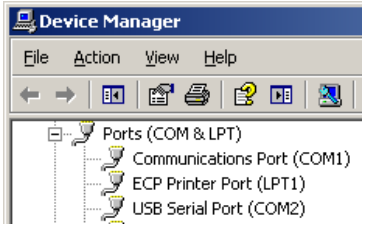
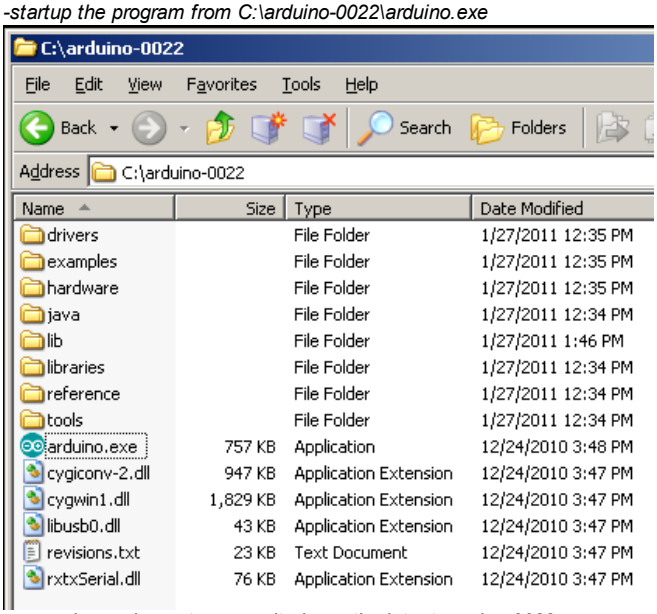
===== 1. Setup Environment ======

-download the arduino software form official webiste (http://arduino.cc/en/Main/Software)
-unzip arduino-0022.zip file and copy to local drive C:\arduino-0022
-download the labviewduino file from google project code website (http://code.google.com/p/labviewduino/downloads/list)
-unzip labviewduino-v1.0.0.127.zip and copy to local drive C:\labviewduino-v1.0.0.127
-connect the usb cable from board to desktop PC.
-install FTDI driver to desktop PC (please ignore if you are using Arduino UNO board). installer file available at C:\arduino-0022\drivers\FTDI USB Drivers
-check the serial port status of Device Manager>>Ports(COM & LPT) >>USB Serial Port (COM2)
-default baud rate setting is 57600 N-8-1.



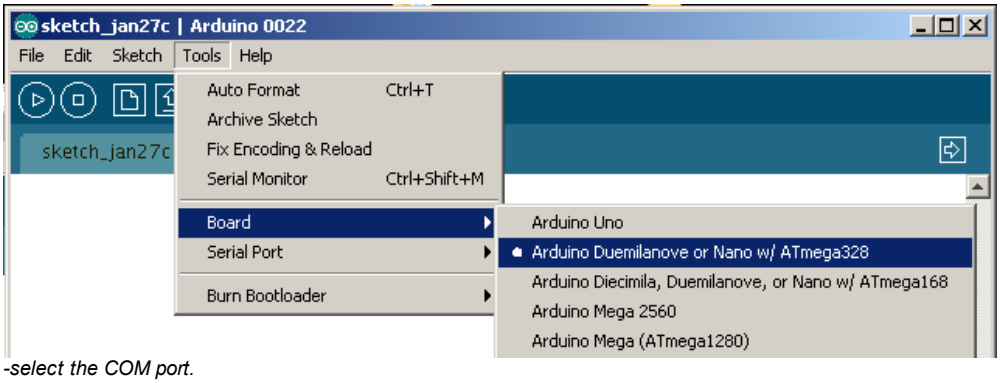
==== 2. Load sketch to Arduino board =====

-startup the program from C:\arduino-0022\arduino.exe

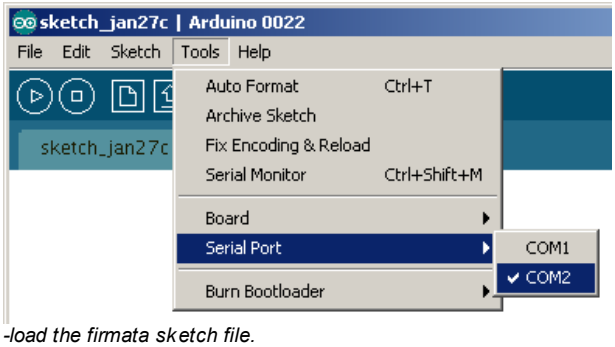


-see welcome logo at screen, it shows the latest version 0022

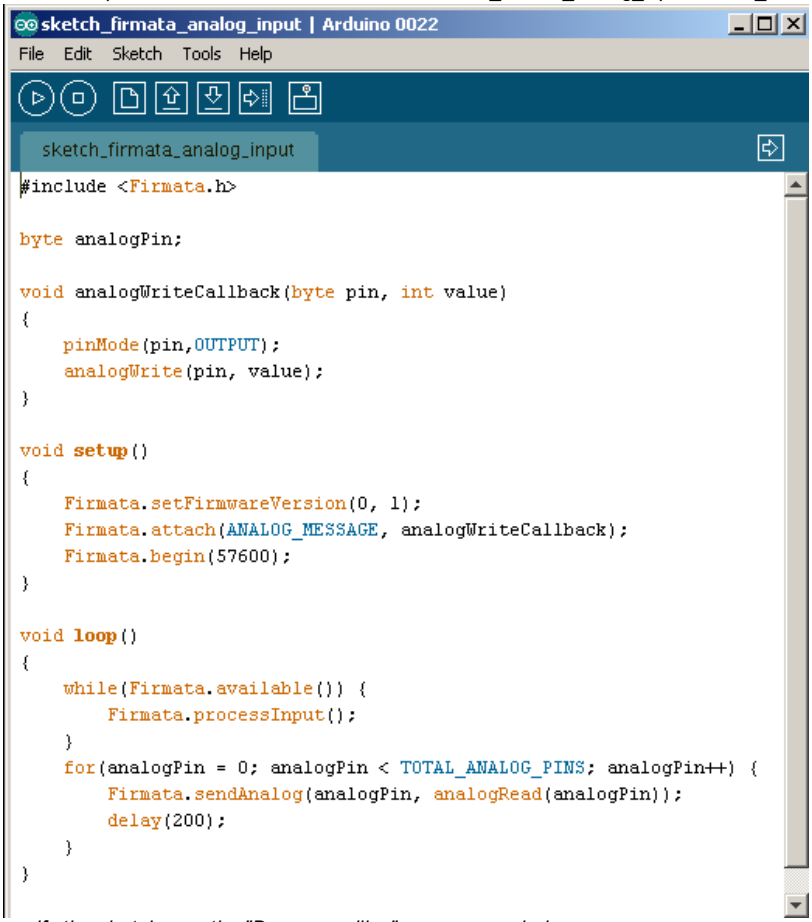
-select the board type.
>> Tools>>Board>>Arduino Duemilanove (for my case)



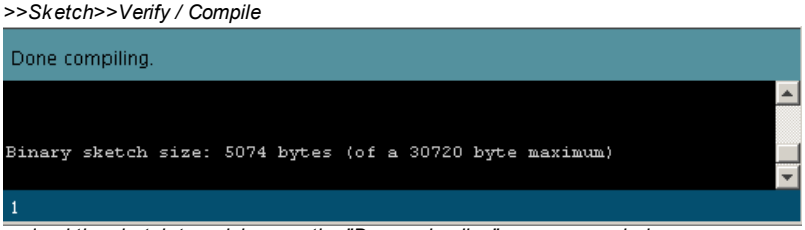
-select the COM port.
>>Tools>>Serial Port>>COM2 (for my case)



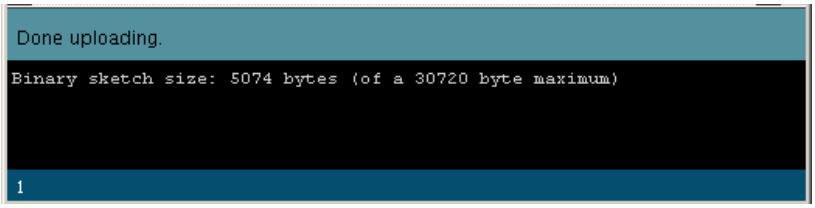
-load the firmata sketch file.
>>File >>Open...>>C:\labviewduino-v1.0.0.127\sketch_firmata_analog_input\sketch_firmata_analog_input.pde



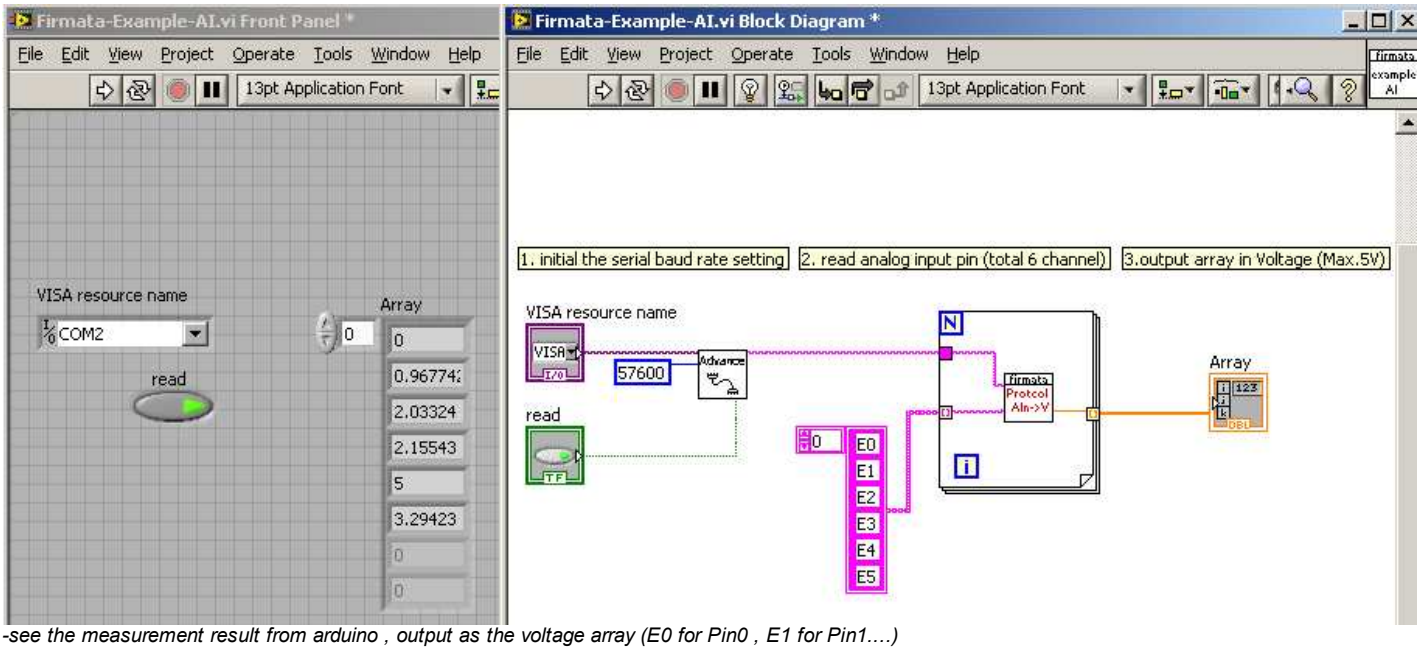
-verify the sketch. see the "Done compiling" message as below.
>>Sketch>>Verify / Compile



-upload the sketch to arduino.see the "Done uploading" message as below.
>>File>>Upload to I/O Board



=== 3. Run LabVIEW Program ====
-open C:\labviewduino-v1.0.0.127\Firmata-example-AI.vi
-check the VISA resource setting for your own setting (ie:COM2)
-run the labview vi



-see the measurement result from arduino , output as the voltage array (E0 for Pin0 , E1 for Pin1....)