


Lab11: Test Program Setup Tutorial

 Please download [test_uart.zip](https://drive.google.com/file/d/1u6SlSby0XR3Cl4rUC9zPXD2l455ygCJ9/view?usp=sharing)

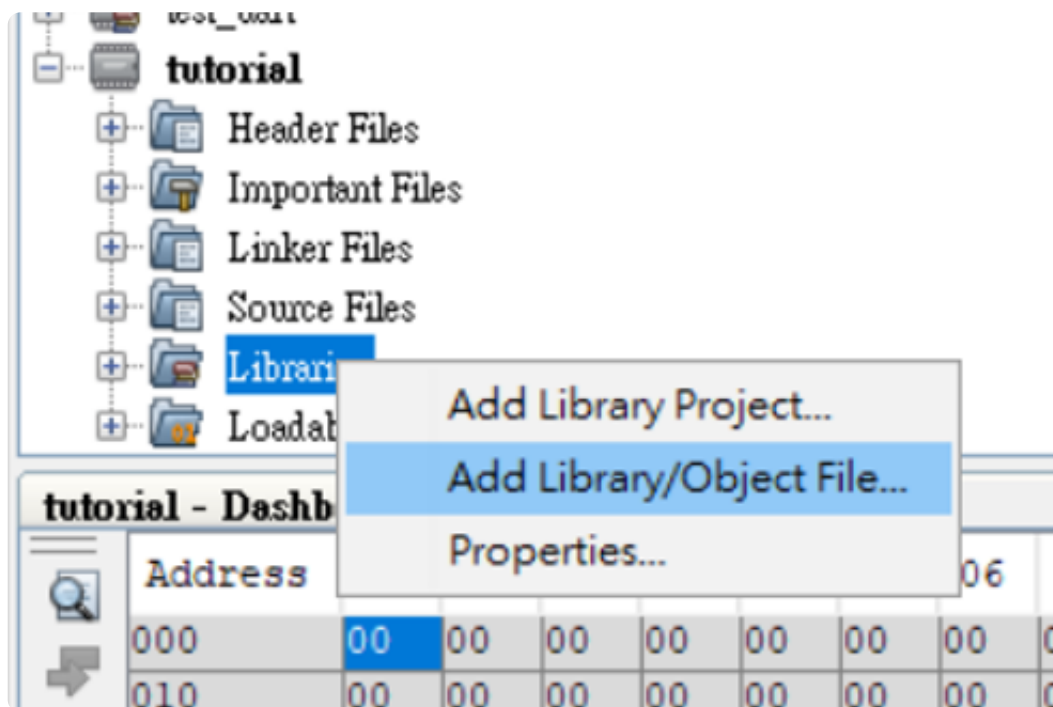
(<https://drive.google.com/file/d/1u6SlSby0XR3Cl4rUC9zPXD2l455ygCJ9/view?usp=sharing>), first

Project Setting

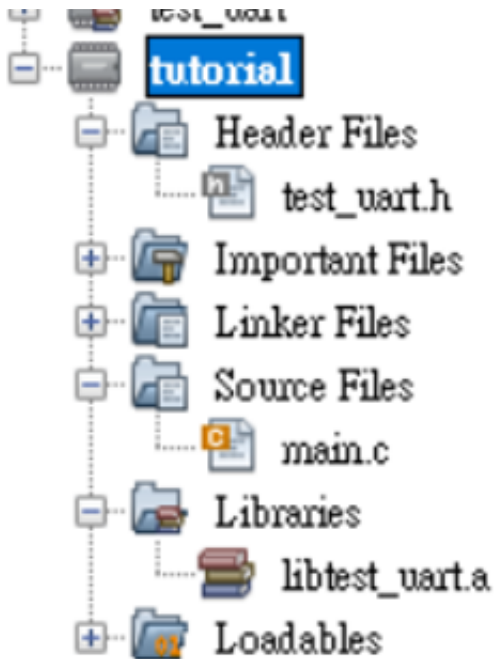
Create a new standalone project with the following settings

- **Device:** PIC18F4520
- **Hardware Tool:** PICKit 3 / PICKit 4
- **Compiler:** XC8
- **Encoding:** UTF-8

Extract test_uart.zip then add test_uart.h , libtest_uart.a and main.c into your project.



The project layout should look like the picture shown below:



Wiring

- Connect PIC18F's RC6(TX) to the white wire of the UART.
- Connect PIC18F's RC7(RX) to the green wire of the UART.

Run and Test

First, right click on the windows icon on the left-bottom of your screen, select and open Device Manager to check which port your UART is using (it might be COM1 , COM2 or COM3). It is COM3 in the below example.

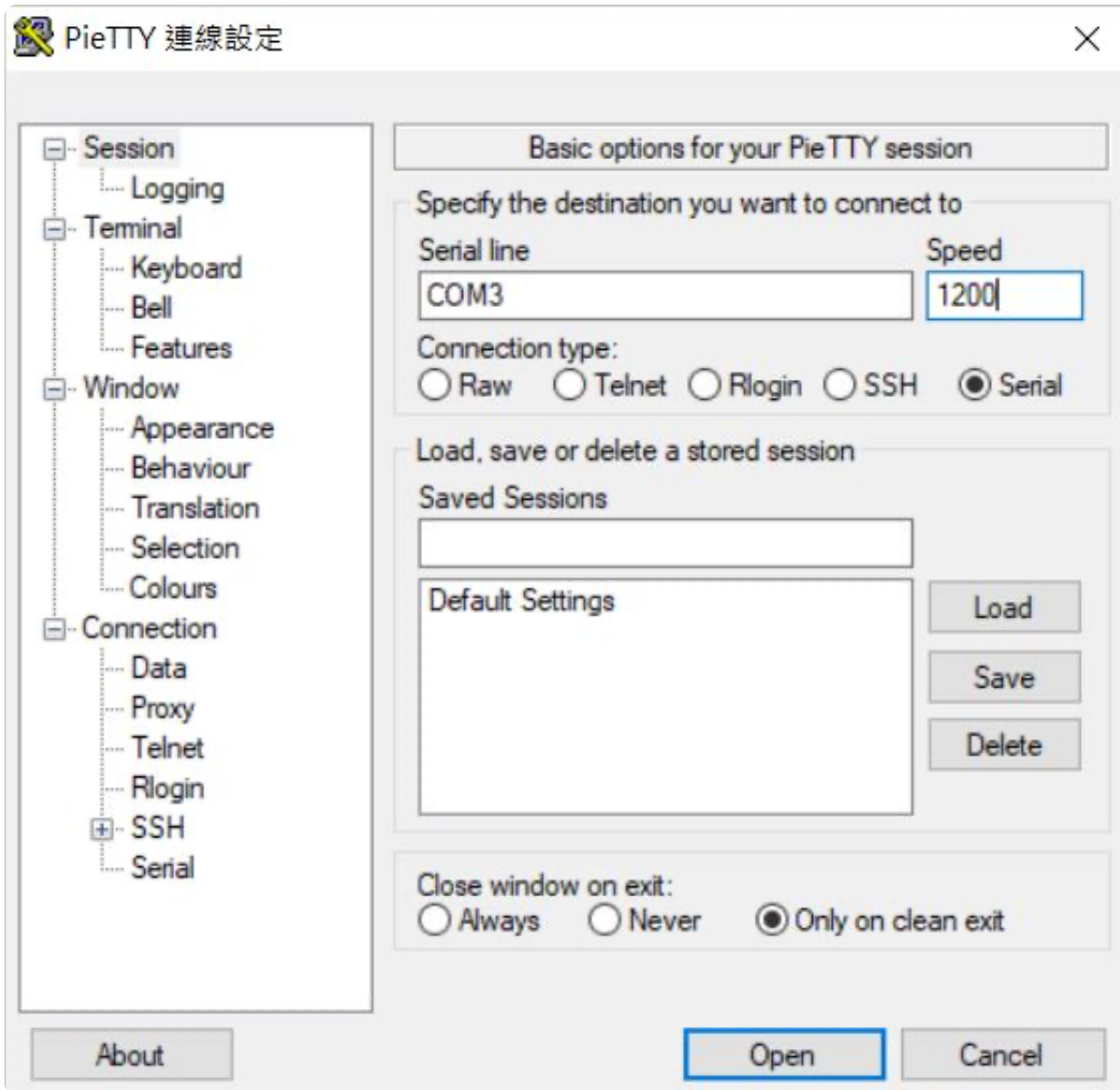


⚠ If Prolific driver can not be recognized as above, please use the given driver (<https://drive.google.com/file/d/1arQNCsTusPRYLMo31AqB9DzZkiQ43D8V/view?usp=sharing>) with the following steps:

- install driver.exe
- right click on the unrecognized port in Device Manager
- update device driver on your computer
- choose the old version (3.3.2.105).

Then you should see a recognized COM* just like the above example.

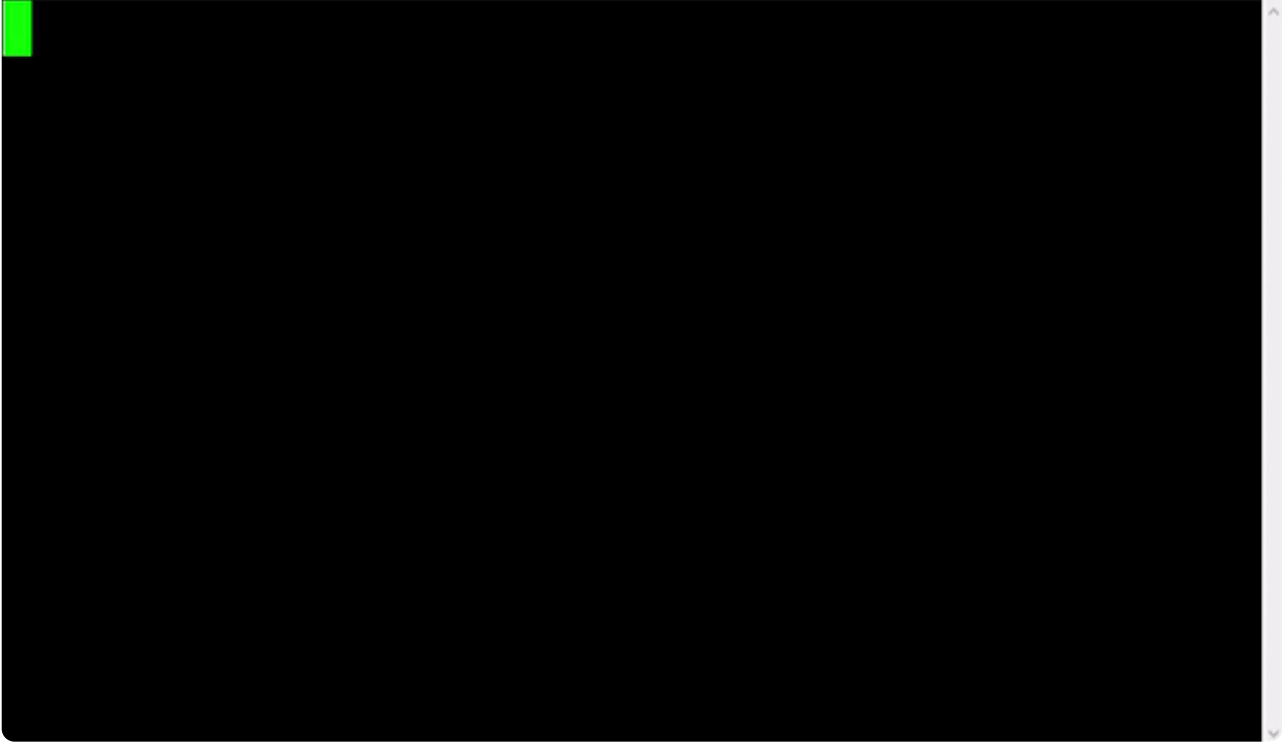
Open PuTTY and specify your **Serial line** to COM3 and set **Speed** to 1200 then press Open .



 You can get PuTTY from putty.org (<http://putty.org>).

If your hardware is connected and set up properly, you can enter some text and see the direct output on the screen.

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Congrats on completing the test program!

Good luck on Lab 11 100

tags: mplab2021