


Lab10: Test Program Setu...

 HackMD (https://hackmd.io?utm_source=view-page&utm_medium=logo-nav).

Lab10:Test Program Setup Tutorial

 Please download [test_uart.zip](#)

(<https://drive.google.com/file/d/1u6SISby0XR3Cl4rUC9zPXD2I455ygCJ9/view?usp=sharing>), first

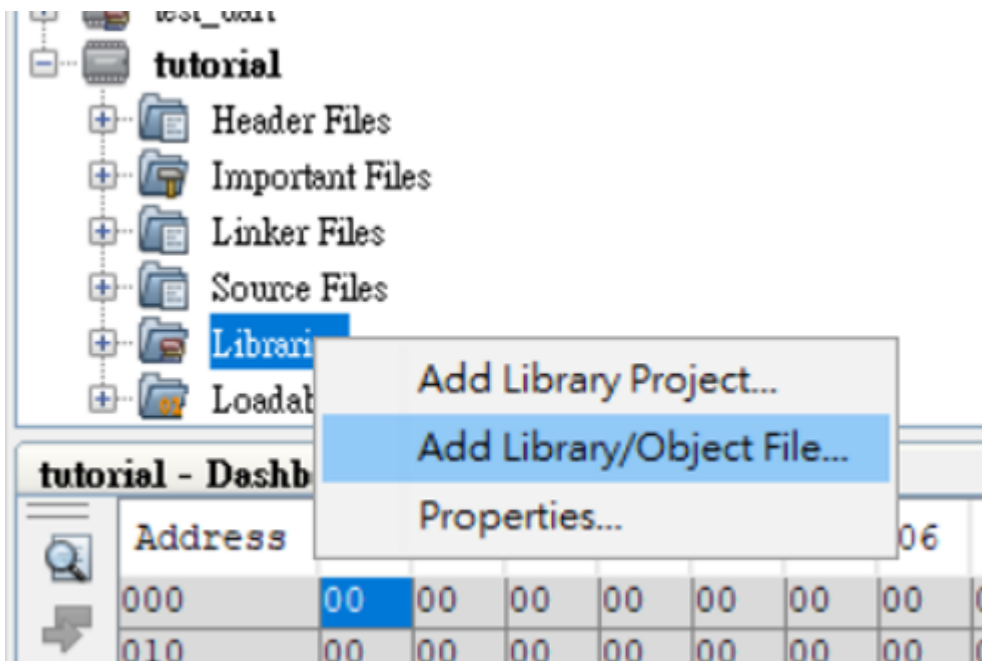
!![test_uart.zip](#) **Download Link** (https://drive.google.com/drive/folders/1-IAQI-AiAn_dCg1pO99wXVhiNSn2DoBw),!!

Project Setting

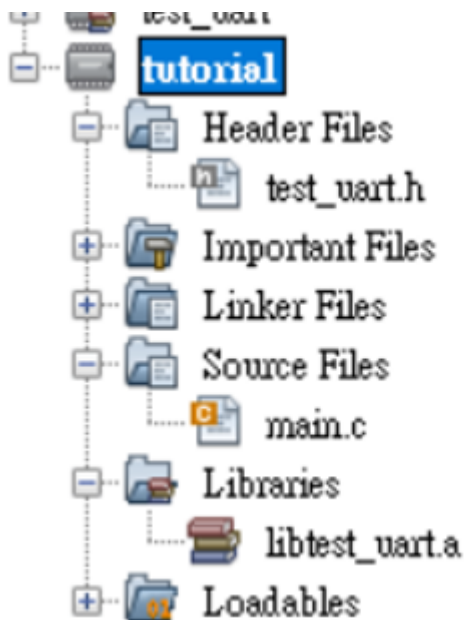
Create a new standalone project with the following settings

- **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 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.

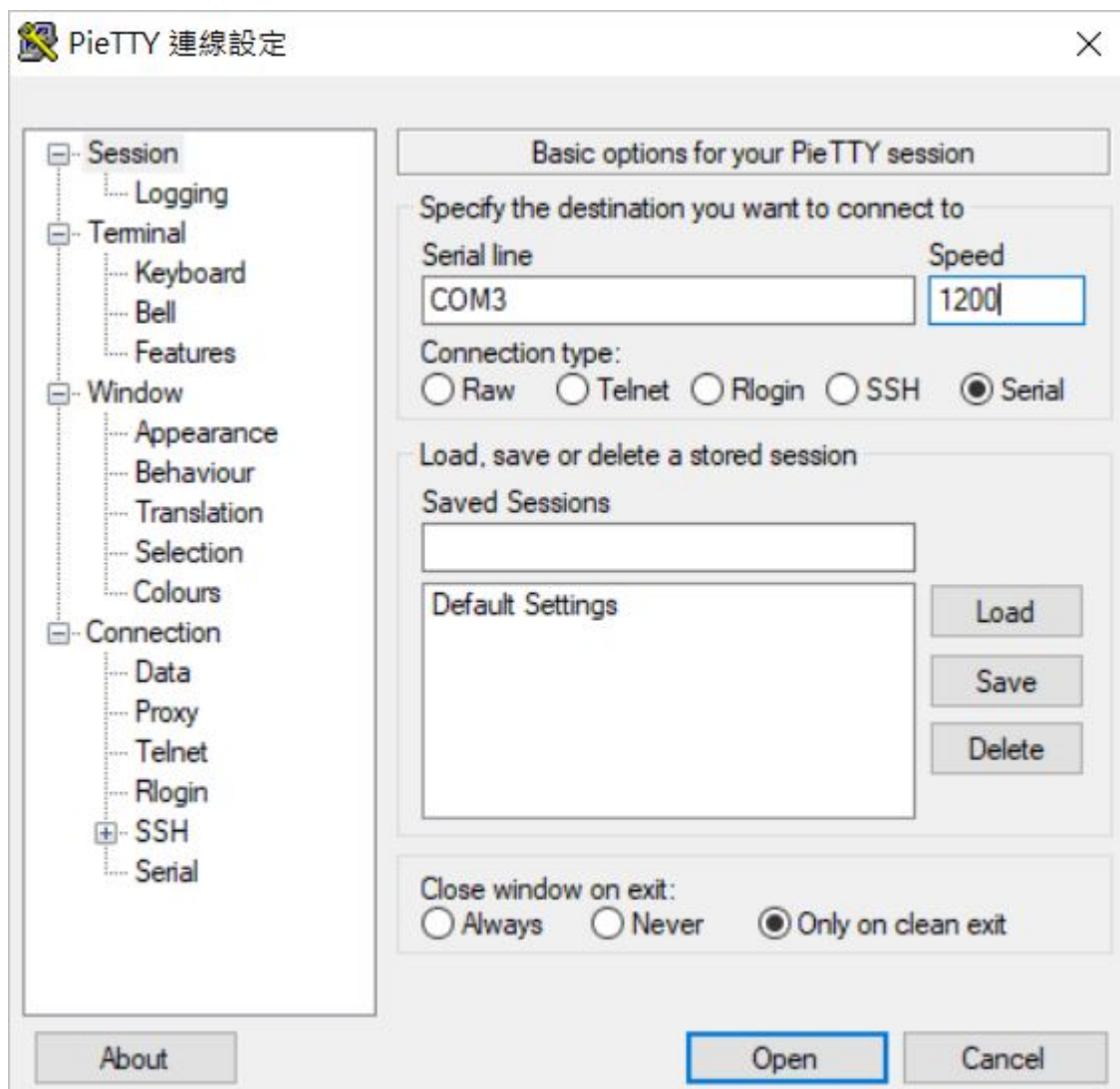


⚠ If Prolific driver can not be recognized as above, please use the given driver (<https://drive.google.com/file/d/1arQNCsTusPRYLMo31AqB9DzZkiQ43D8V/view?usp=sharing>), with the following steps:

- 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.

