

# Lab10:Test Program Setup Tutorial

 Please download [test\\_uart.zip](https://drive.google.com/file/d/1u6SISby0XR3Cl4rUC9zPXD2l455ygCJ9/view?usp=sharing)  
(<https://drive.google.com/file/d/1u6SISby0XR3Cl4rUC9zPXD2l455ygCJ9/view?usp=sharing>).  
first

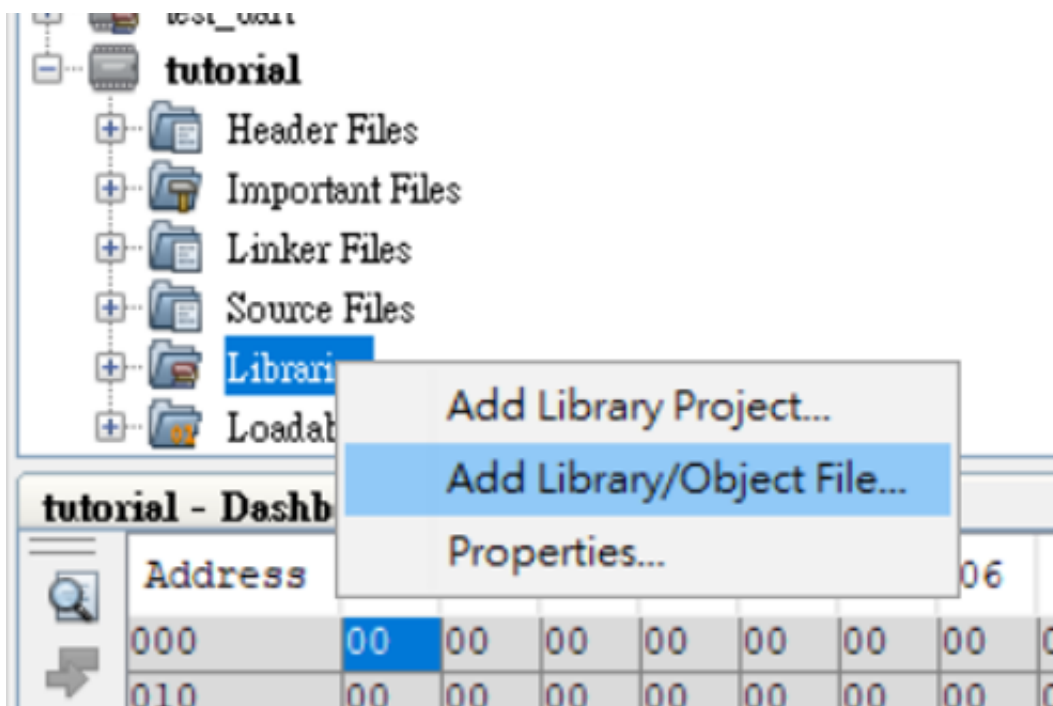
**!! test\_uart.zip Download Link** ([https://drive.google.com/drive/folders/1-IAQl-AiAn\\_dCg1pO99wXVhiNSn2DoBw](https://drive.google.com/drive/folders/1-IAQl-AiAn_dCg1pO99wXVhiNSn2DoBw)). **!!**

# Project Setting

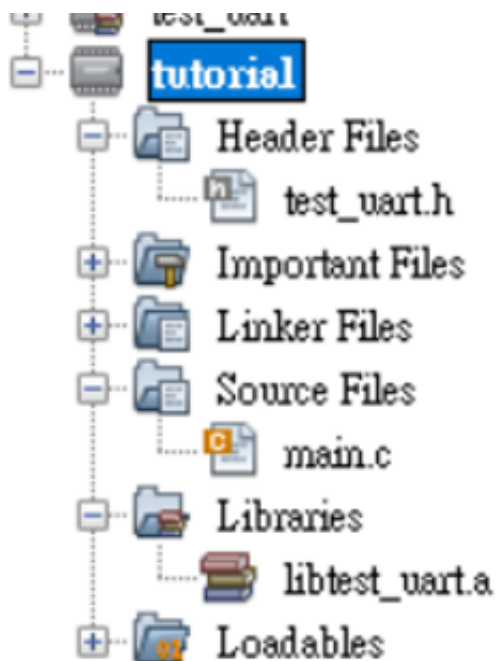
Create a new standalone project with the following settings

- **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

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- 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

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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.

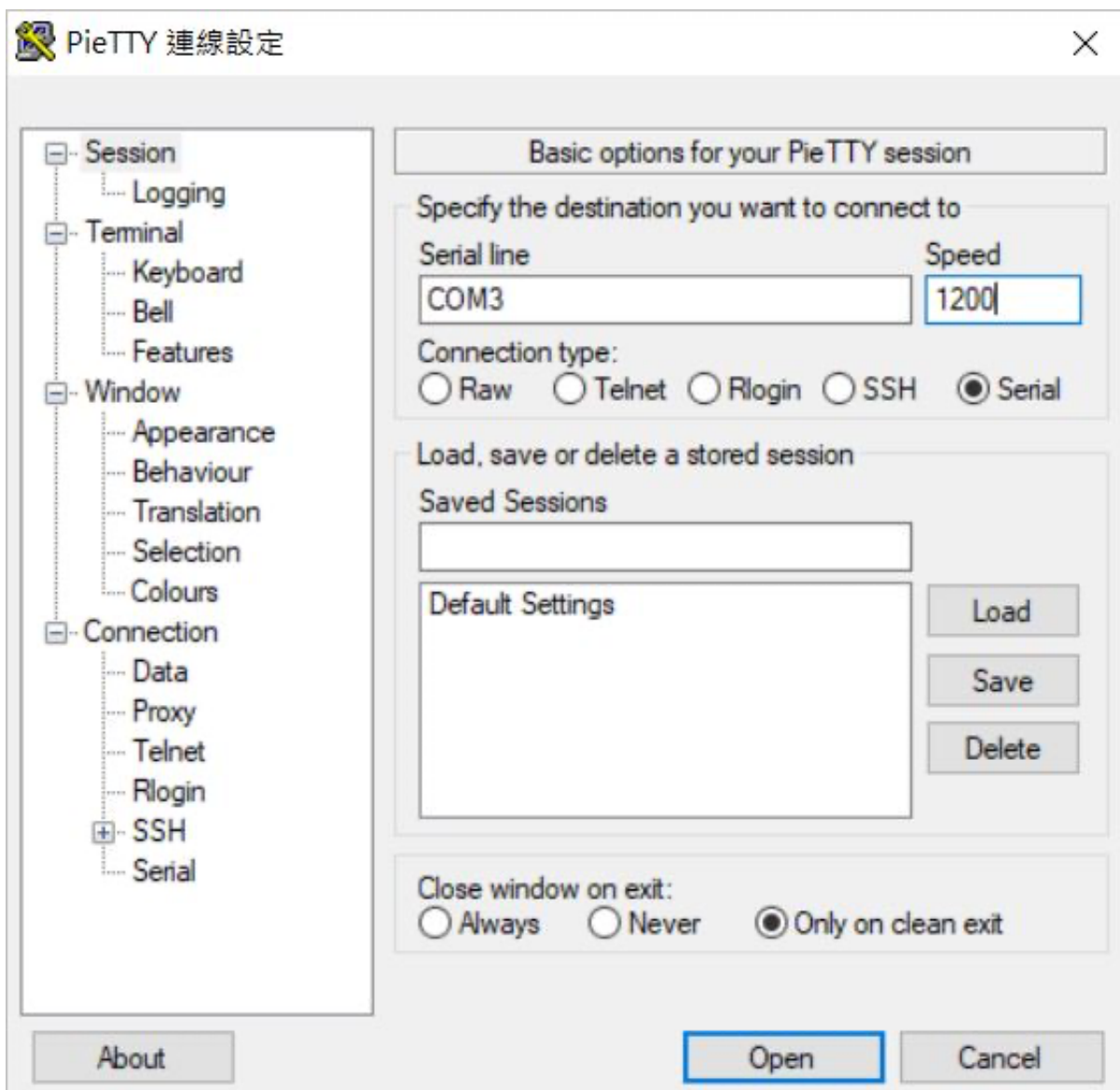


⚠ If Prolific driver can not be recognized as above, please use the given driver (<https://drive.google.com/file/d/1arQNCsTusPRYLMo31AqB9DzZkiQ43D8V/view?usp=sharing>). with the following steps:

- 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 .



 You can get PuTTY from [putty.org](http://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.

