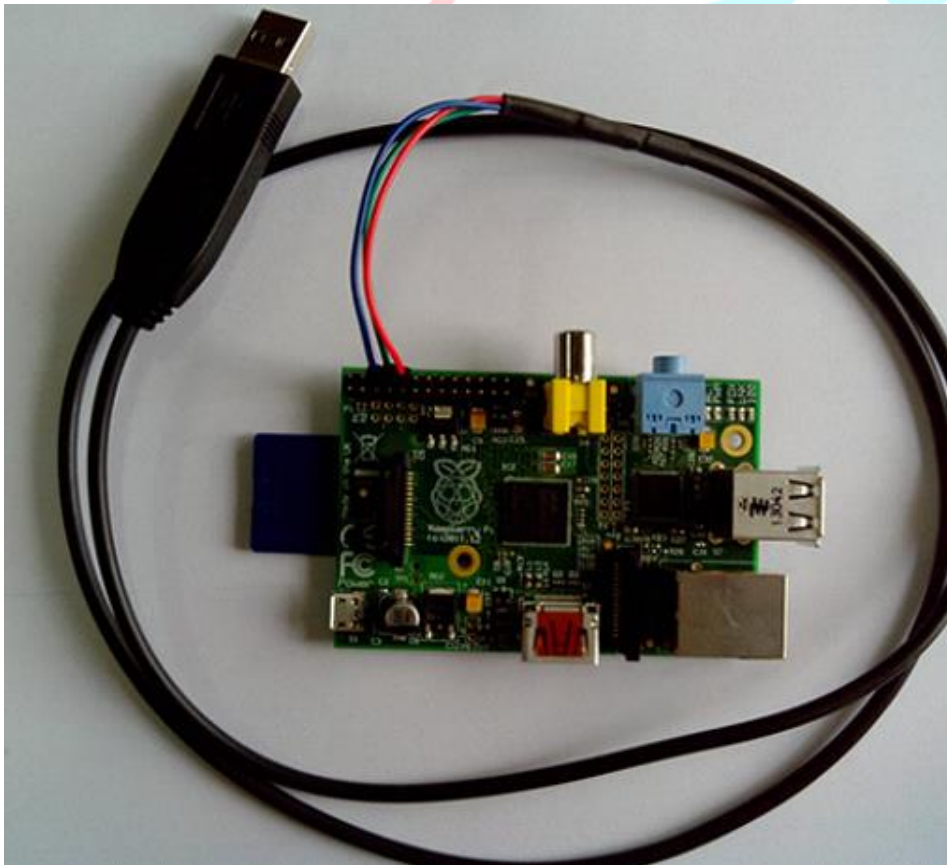




2012

Accessing Raspberry Pi through Serial



Author: P N Kiran

Introduction:

When you are setting up a new Raspberry Pi, it's helpful to have console access so that it can save you from having the separate keyboard and monitor. So I am using this [serial cable](#) 3.3V. Inside the USB plug there is a USB to Serial conversion chip. Using this serial connection to connect to a Raspberry Pi has many advantages. The boot process is at 115,200 bit/s and also we can be able to see the kernel boot messages. Since most of the Desktop and laptops do not come with a serial port at that time can go with this cheapest solutions.

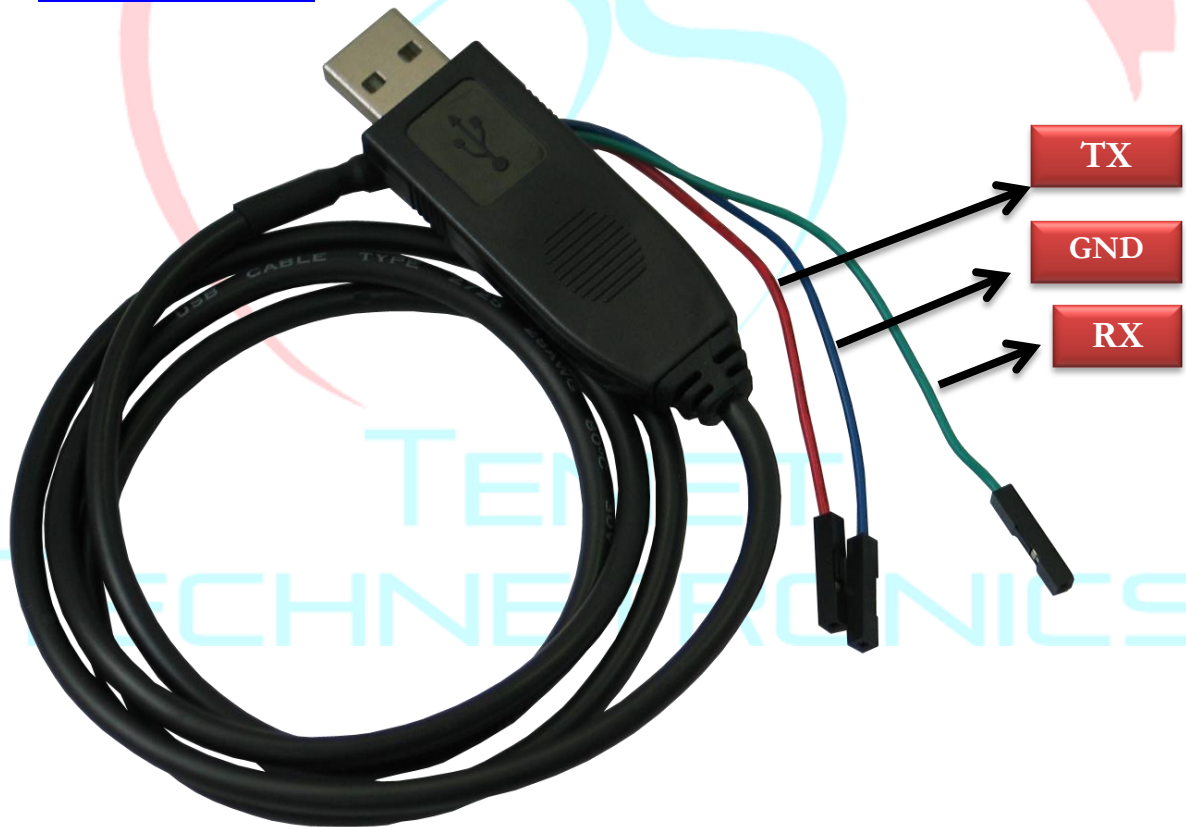
Basic Requirements:

- Raspberry Pi
- USB micro for power up
- SD Card with Raspbian image
- Serial cable
- Putty (Terminal Emulation Software)

Cable:

**Serial cable 3.3V : <http://tenettech.com/product/2625/usb-serial-cable-f>

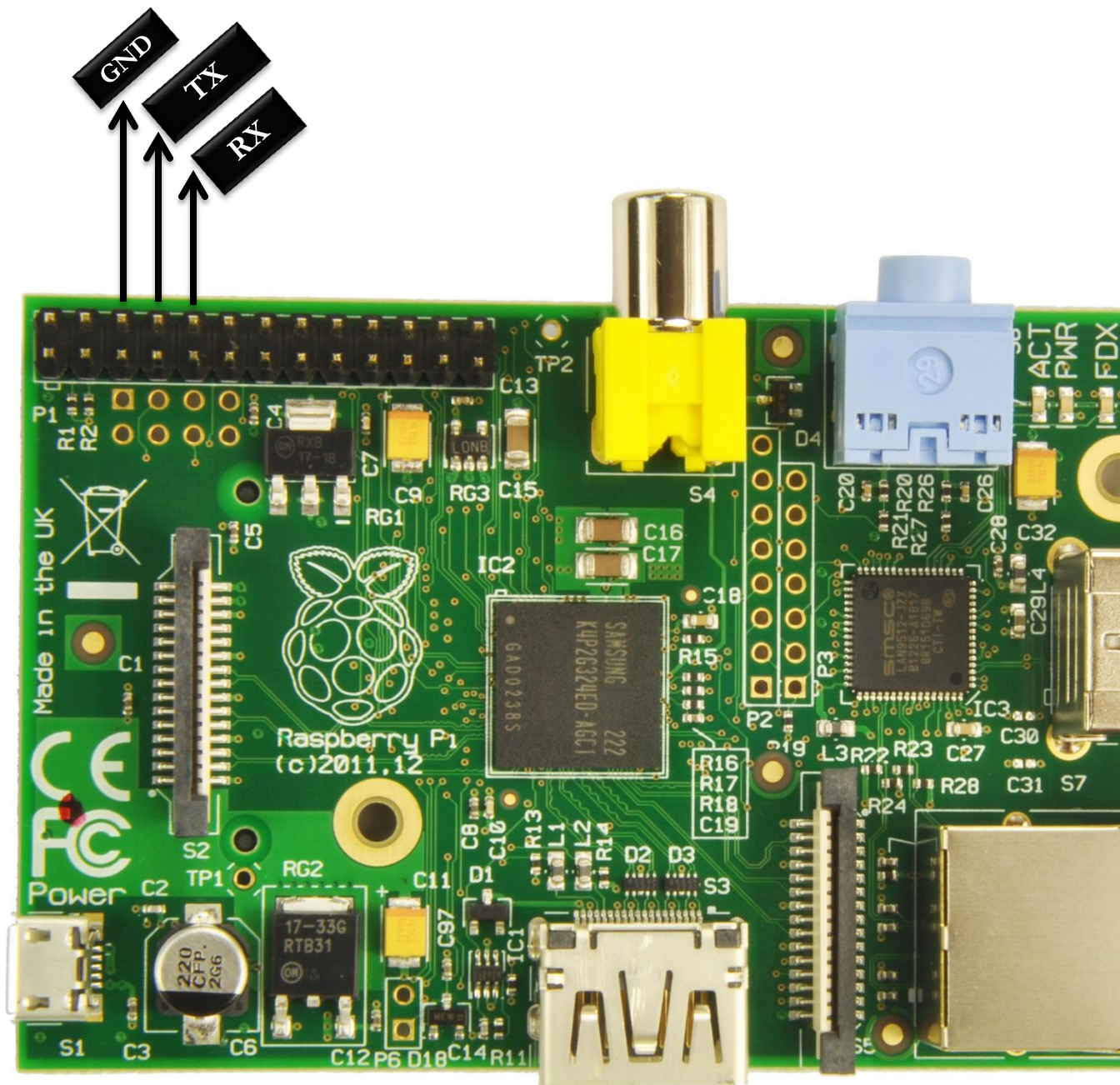
**Driver: [USB-SERIAL Cable](#)



Putty:

**You can download the Putty software from [here](#)

Raspberry Pi Pin Connections



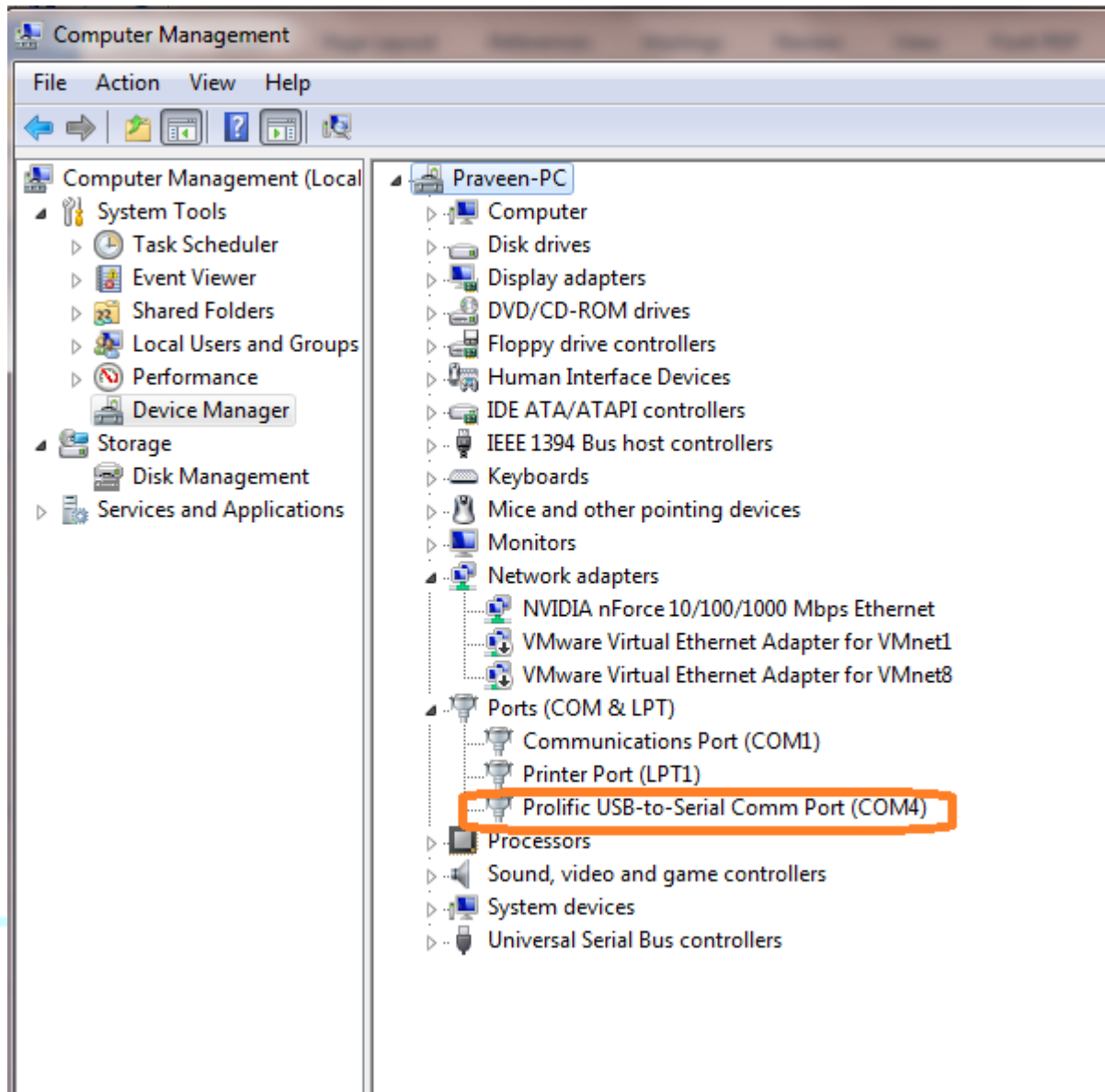
Connections:

- Blue wire should be connected to **Ground**
- Green wire should be connected to **TX**
- Red wire should be connected to **RX**

Now plug in your USB and install the drivers.

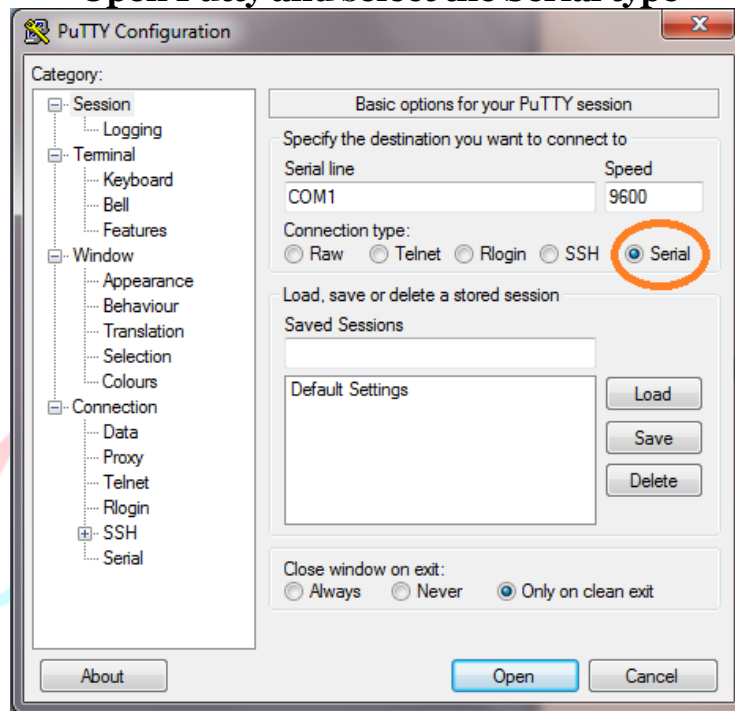
Step 1:

Note down the COM port by **My Computer**→**Right Click**→**Manage**→**Device Management**



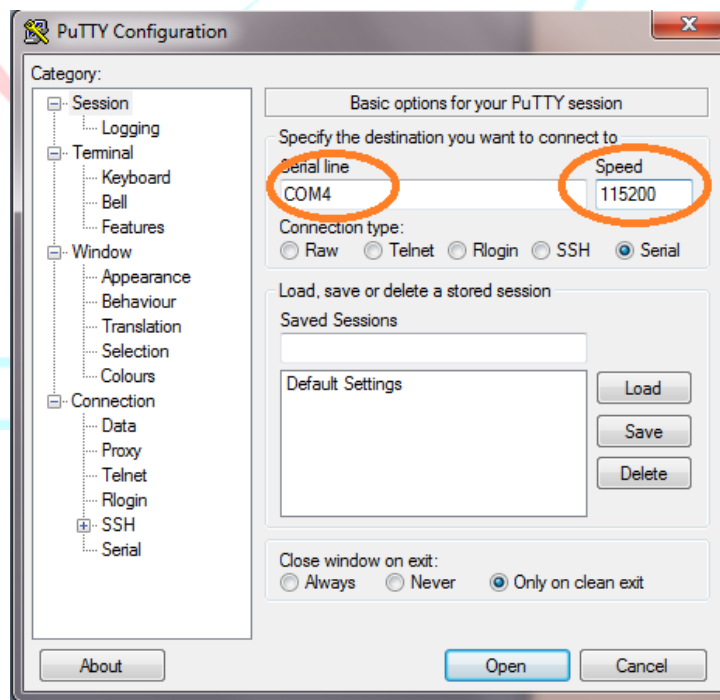
Step 2:

Open Putty and select the Serial type



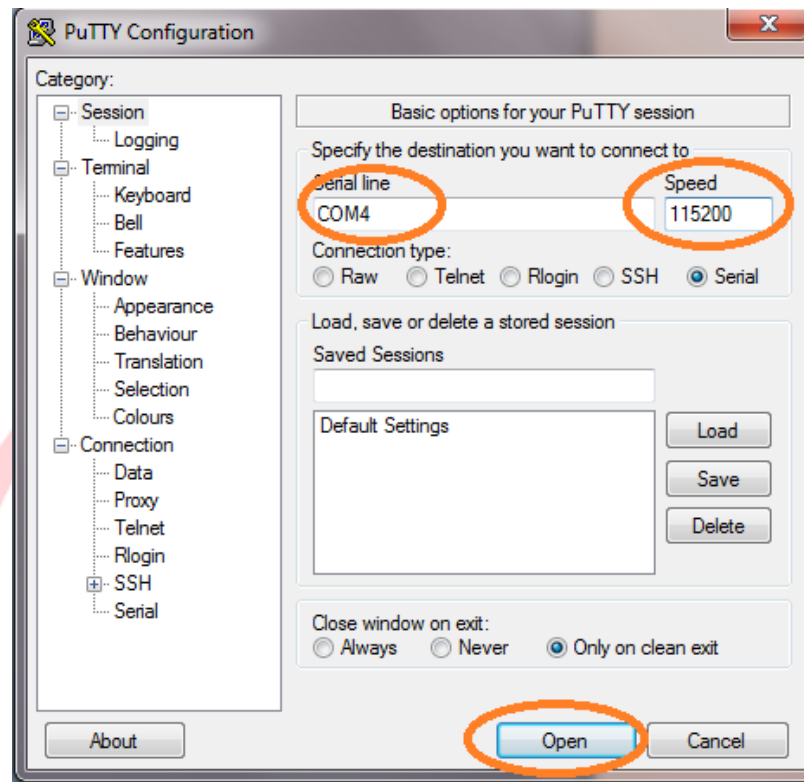
Step 3:

And enter the com port number (**COM4**) in the serial line and set the baud rate speed **115200**.



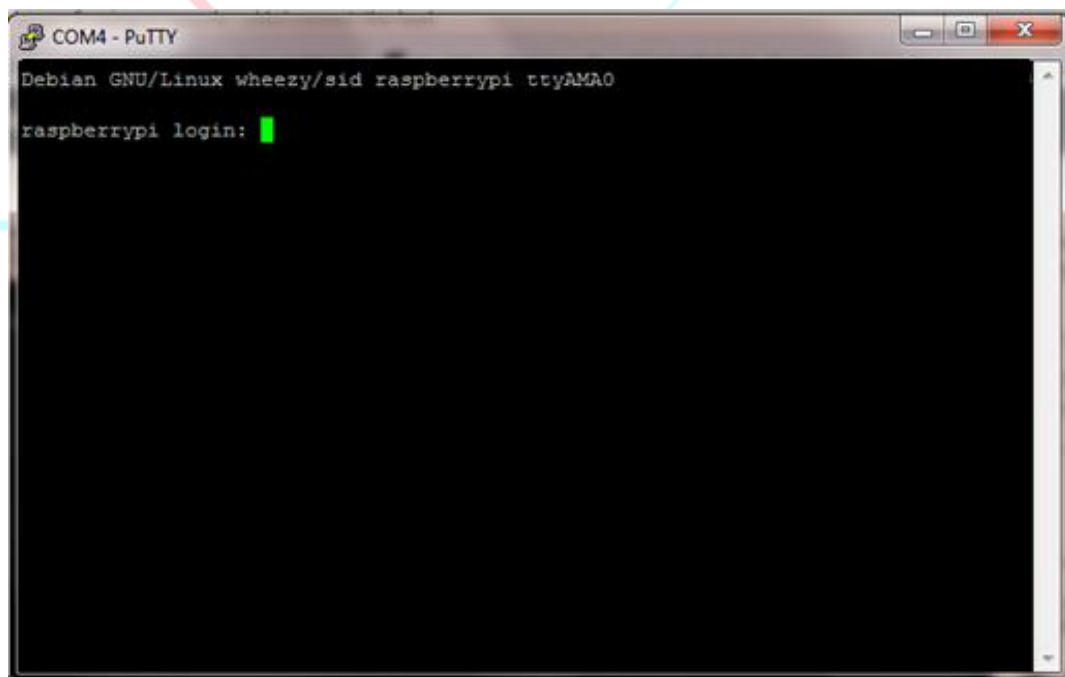
Step 4:

Then click open



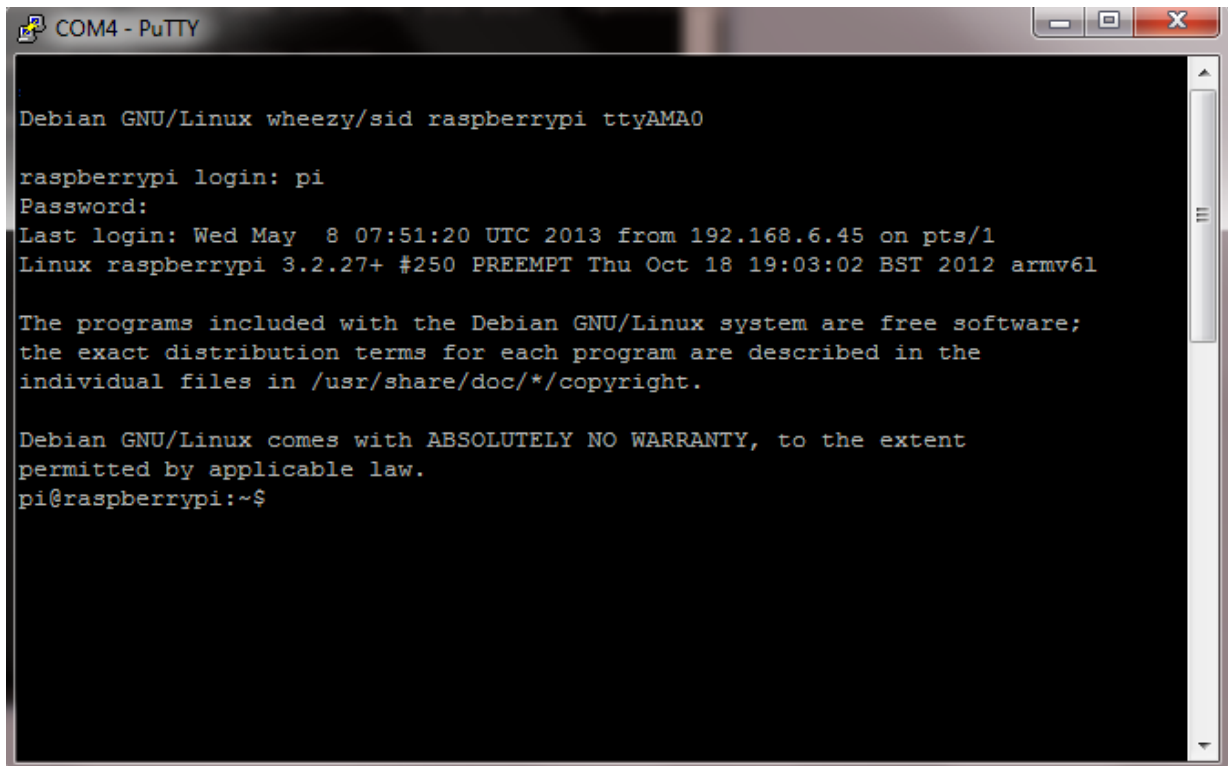
Step 5:

Enter your username and Password



Step 6:

Finally you will get your terminal window here.



```
COM4 - PuTTY

Debian GNU/Linux wheezy/sid raspberrypi ttyAMA0

raspberrypi login: pi
Password:
Last login: Wed May 8 07:51:20 UTC 2013 from 192.168.6.45 on pts/1
Linux raspberrypi 3.2.27+ #250 PREEMPT Thu Oct 18 19:03:02 BST 2012 armv6l

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
pi@raspberrypi:~$
```

TENET
TECHNETRONICS

For queries:

info@tenettech.com

For placing an order:

****Raspberry Pi:** <http://www.tenettech.com/product/2184/tenet-technetronicsraspberrypi>

**** Serial cable 3.3V :** <http://tenettech.com/product/2625/usb-serial-cable-f>

