- 3. Boot up an Embedded Linux Board, login into the system and grab a shell.

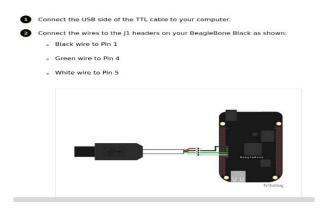
 Try basic Linux commands on the shell.
 - Download Debian Beaglebone Black Image File:-https://www.beagleboard.org/distros/am335x-12-2-2023-10-07-4gb-microsd-iot
 - Download Balena etcher for flashing the Image file SD card: https://etcher.balena.io/#download-etcher

ASSET OS ARCH ETCHER FOR WINDOWS (X86|X64) (INSTALLER) WINDOWS X86|X64 Download ETCHER FOR WINDOWS (X86|X64) (PORTABLE) WINDOWS X86|X64 Download ETCHER FOR WINDOWS (LEGACY 32 BIT) (X86|X64) (PORTABLE) WINDOWS X86|X64 Download ETCHER FOR MACOS MACOS X64 Download ETCHER FOR LINUX X64 (64-BIT) (APPIMAGE) LINUX X66 Download ETCHER FOR LINUX (LEGACY 32 BIT) (APPIMAGE) LINUX X86 Download

3. Install the balena etcher and transfer the image to SD card $\,$



4. Complete serial connection on the beagleboneboard



5. Install minicom:

\$ sudo apt-get install minicom

6. \$ sudo minicom -D /dev/ttyUSB0

Place the card inside the BBB; provide power supply to board

7. Check device details

\$ ifconfig | more

8. Login to BBB board

\$ ssh debian@192.168.7.2

```
Debian GNU/Linux 12 BeagleBone ttyS0

BeagleBoard.org Debian Bookworm IoT Image 2023-10-07
Support: https://bbb.io/debian
default username:password is [debian:temppwd]

Web console: https://BeagleBone.localdomain:9090/

BeagleBone login: [ 58.396824] davinci-mcasp 48038000.mcasp: IRQ common not found temppwd
Password:

Login incorrect
BeagleBone login: debian
Password:

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. debian@BeagleBone:~$
```

9. Checing and confirming device connection setup or not

\$ dmesg | more

```
[246109.499118] pl2303 1-9:1.0: pl2303 converter detected
[246109.499946] usb 1-9: pl2303 converter now attached to ttyUSB0
desd@desd-OptiPlex-5050:/$
```