```
Open ▾   ⊡

1 Echo server commend
2
3 vim server.c
4 vim main1.c
5 vim server.h
6 gcc main1.c server.c -o server_prog
7 ./server_prog
8
9 (ctrl +c)
10
11 vim client.c
12 vim main2.c
13 vim client.h
14 => poki tiny tool enable
15 ${cc} client.c main2.c -o client_prog
16 sudo cp client_prog  var/lib/tftpboot/
17 ./server_prog
18
19 minicom (sd card)
20
21 root
22 cd /
23 cd data
24 cd network
25 vi interfaces (write the code)
26  auto lo
27 iface lo inet loopback
28 :wq
29
30 ifconfig eth0 192.168.1.22
31 tftp -g -r client_prog -l client_prog 192.168.1.30
32 chmod 777 client_prog
33 ./client_prog 192.168.1.30
```

```
surendar@surendar:~/Downloads/pratical/5 eeprom$ ls
 eeprom.c  'eeprom commend.txt'   eeprom.h   main.c   rb_hl   Readme.txt
surendar@surendar:~/Downloads/pratical/5 eeprom$ gcc main.c eeprom.c -o rb
surendar@surendar:~/Downloads/pratical/5 eeprom$ ./rb
EEPROM_FILE_BOARD open error: No such file or directory
EEPROM_FILE_BOARD open error: No such file or directory
[EEPROM content]==============================
Module ID :
Serial NO :
Data      :
surendar@surendar:~/Downloads/pratical/5 eeprom$ echo CC
CC
surendar@surendar:~/Downloads/pratical/5 eeprom$ export=gcc
surendar@surendar:~/Downloads/pratical/5 eeprom$ . /opt/poky-tiny/2.5.2/environment-setup-cortexa5hf-neon-poky-linux-musleabi
surendar@surendar:~/Downloads/pratical/5 eeprom$ ${CC} main.c eeprom.c -o rb
surendar@surendar:~/Downloads/pratical/5 eeprom$ cp rb /var/lib/tftpboot/
surendar@surendar:~/Downloads/pratical/5 eeprom$
```

```
A5d2x

starting pid 137, tty '/dev/ttyS0': '/sbin/getty 115200 ttyS0'

Poky (Yocto Project Reference Distro) 2.5.2 rugged-board-a5d2x /dev/ttyS0

rugged-board-a5d2x login: root
-sh: command: not found
root@rugged-board-a5d2x:~# ls
root@rugged-board-a5d2x:~# cd /
root@rugged-board-a5d2x:/# ls
bin        dev        lib        mnt        sbin       usr
boot       etc        linuxrc    proc       sys        var
data       home       media      run        tmp        www
root@rugged-board-a5d2x:/# cd data
root@rugged-board-a5d2x:/data# ls
env.sh        hellomraa  lib          network      www
root@rugged-board-a5d2x:/data# cd ..
root@rugged-board-a5d2x:/# ifconfig eth0 192.168.1.30
IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
root@rugged-board-a5d2x:/# macb f8008000.ethernet eth0: link up (100/Full)
IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready

root@rugged-board-a5d2x:/# tftp -r rb-g 192.168.1.10
BusyBox v1.27.2 (2021-10-02 14:09:16 UTC) multi-call binary.

Usage: tftp [OPTIONS] HOST [PORT]
root@rugged-board-a5d2x:/# chmod 777 rb
chmod: rb: No such file or directory
root@rugged-board-a5d2x:/# tftp -r rb -g 192.168.1.10
tftp: can't open 'rb': Read-only file system
root@rugged-board-a5d2x:/# chmod 777 rb
chmod: rb: No such file or directory
root@rugged-board-a5d2x:/# cd data
root@rugged-board-a5d2x:/data# tftp -r rb -g 192.168.1.10
root@rugged-board-a5d2x:/data# chmod 777 rb
root@rugged-board-a5d2x:/data# ./rmacb f8008000.ethernet eth0: link down
b macb f8008000.ethernet eth0: link up (100/Full)

random: crng init done
EEPROM_FILE_BOARD write error : Partial write to EEPROM (256)
[EEPROM content]==============================
Module ID : RBEEPROM1234
Serial NO : 112233445566
Data      : Phytec Embedded Pvt Ltd
root@rugged-board-a5d2x:/data# ./rb 192.168.1.10 54145
EEPROM_FILE_BOARD write error : Partial write to EEPROM (256)
[EEPROM content]==============================
Module ID : RBEEPROM1234
Serial NO : 112233445566
Data      : Phytec Embedded Pvt Ltd
root@rugged-board-a5d2x:/data#
```

surendar@surendar: ~/Downloads/pratical/8 analog to digital   ×   surendar@surendar: ~/Downloads

```
surendar@surendar:~/Downloads/pratical/8
adc.c  adc.h  prog_adc  Test.c
surendar@surendar:~/Downloads/pratical/8 analog to digital$ gcc test.c adc.c -o sb
cc1: fatal error: test.c: No such file or directory
compilation terminated.
surendar@surendar:~/Downloads/pratical/8 analog to digital$ gcc Test.c adc.c -o sb
surendar@surendar:~/Downloads/pratical/8 analog to digital$ ./sb
Usage: ./sb <adc_channel>
surendar@surendar:~/Downloads/pratical/8 analog to digital$ echo cc
cc
surendar@surendar:~/Downloads/pratical/8 analog to digital$ export=gcc
surendar@surendar:~/Downloads/pratical/8 analog to digital$ . /opt/poky-tiny/2.5.2/environment-setup-cortexa5hf-neon-poky-linux-musleabi
surendar@surendar:~/Downloads/pratical/8 analog to digital$ ${CC} Test.c adc.c -o sb
surendar@surendar:~/Downloads/pratical/8 analog to digital$ cp sb /var/lib/tftpboot/
surendar@surendar:~/Downloads/pratical/8 analog to digital$
```

```
A5d2X

starting pid 137, tty '/dev/ttyS0': '/sbin/getty 115200 ttyS0'

Poky (Yocto Project Reference Distro) 2.5.2 rugged-board-a5d2x /dev/ttyS0

rugged-board-a5d2x login: root
-sh: command: not found
root@rugged-board-a5d2x:~# cd /
root@rugged-board-a5d2x:/# ls
bin        dev        lib        mnt        sbin       usr
boot       etc        linuxrc    proc       sys        var
data       home       media      run        tmp        www
root@rugged-board-a5d2x:/# cd data
root@rugged-board-a5d2x:/data# ls
env.sh       hellomraa lib        network    rb         www
root@rugged-board-a5d2x:/data# ifconfig eth0 192.168.1.22
IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
root@rugged-board-a5d2x:/data# macb f8008000.ethernet eth0: link up (100/Full)
IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready

root@rugged-board-a5d2x:/data# tftp -r sb -g 192.168.1.10
root@rugged-board-a5d2x:/data# chmod 777 sb
root@rugged-board-a5d2x:/data# ./sb 192.168.1.10 54154

    *** ADC TESTING UTILITY ***
open scan_elements/in_voltage error: No such file or directory
open in_voltage_raw error: No such file or directory
read error: Bad file descriptor
Digital Value on Channel 192 = -1
Analog Value on Channel 192 = -0.000197
open in_voltage_raw error: No such file or directory
read error: Bad file descriptor
Digital Value on Channel 192 = -1
Analog Value on Channel 192 = -0.000197
open in_voltage_raw error: No such file or directory
read error: Bad file descriptor
Digital Value on Channel 192 = -1
Analog Value on Channel 192 = -0.000197
open in_voltage_raw error: No such file or directory
read error: Bad file descriptor
Digital Value on Channel 192 = -1
Analog Value on Channel 192 = -0.000197
open in_voltage_raw error: No such file or directory
read error: Bad file descriptor
Digital Value on Channel 192 = -1
Analog Value on Channel 192 = -0.000197
open in_voltage_raw error: No such file or directory
read error: Bad file descriptor
Digital Value on Channel 192 = -1
Analog Value on Channel 192 = -0.000197
```