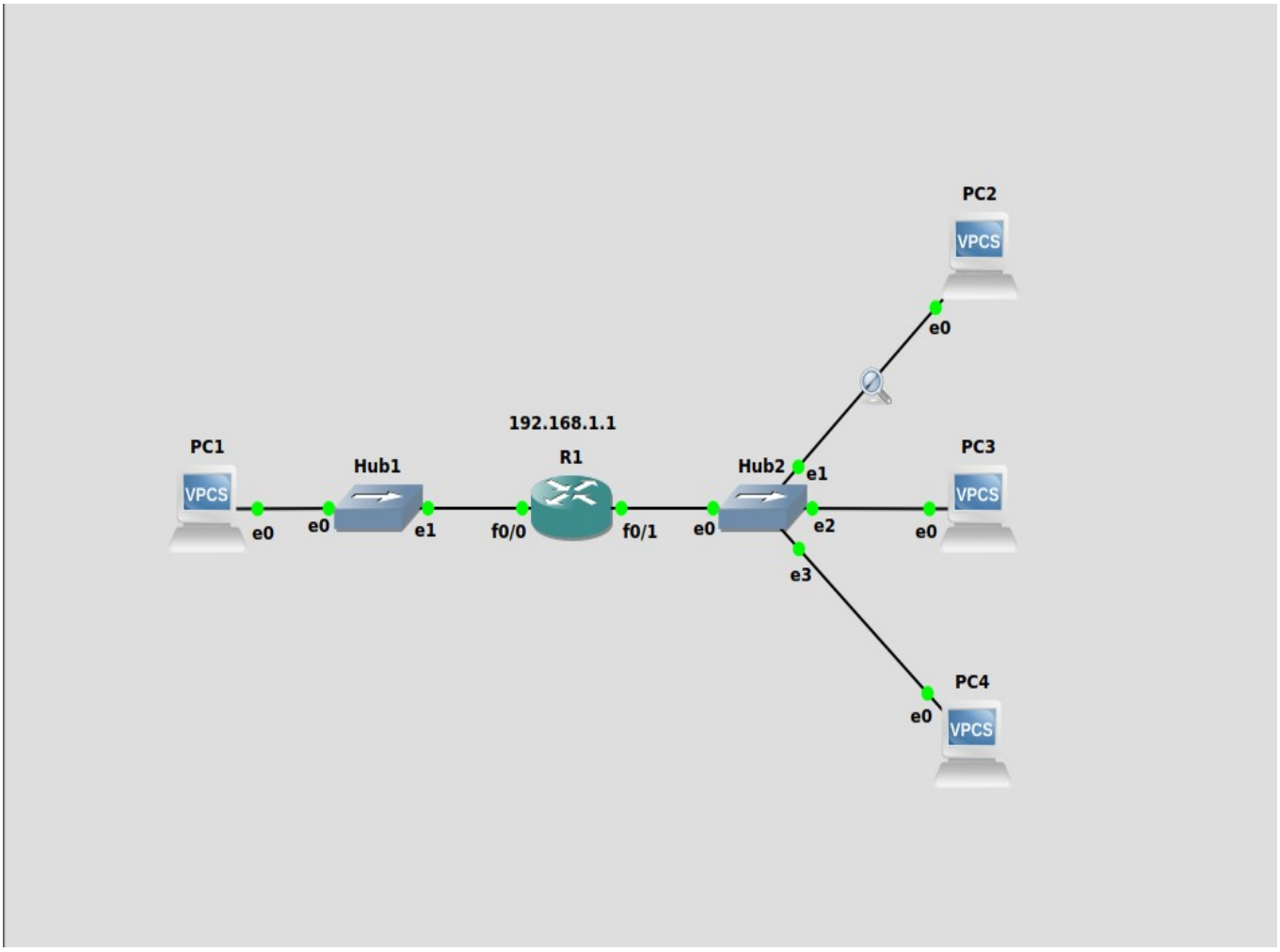
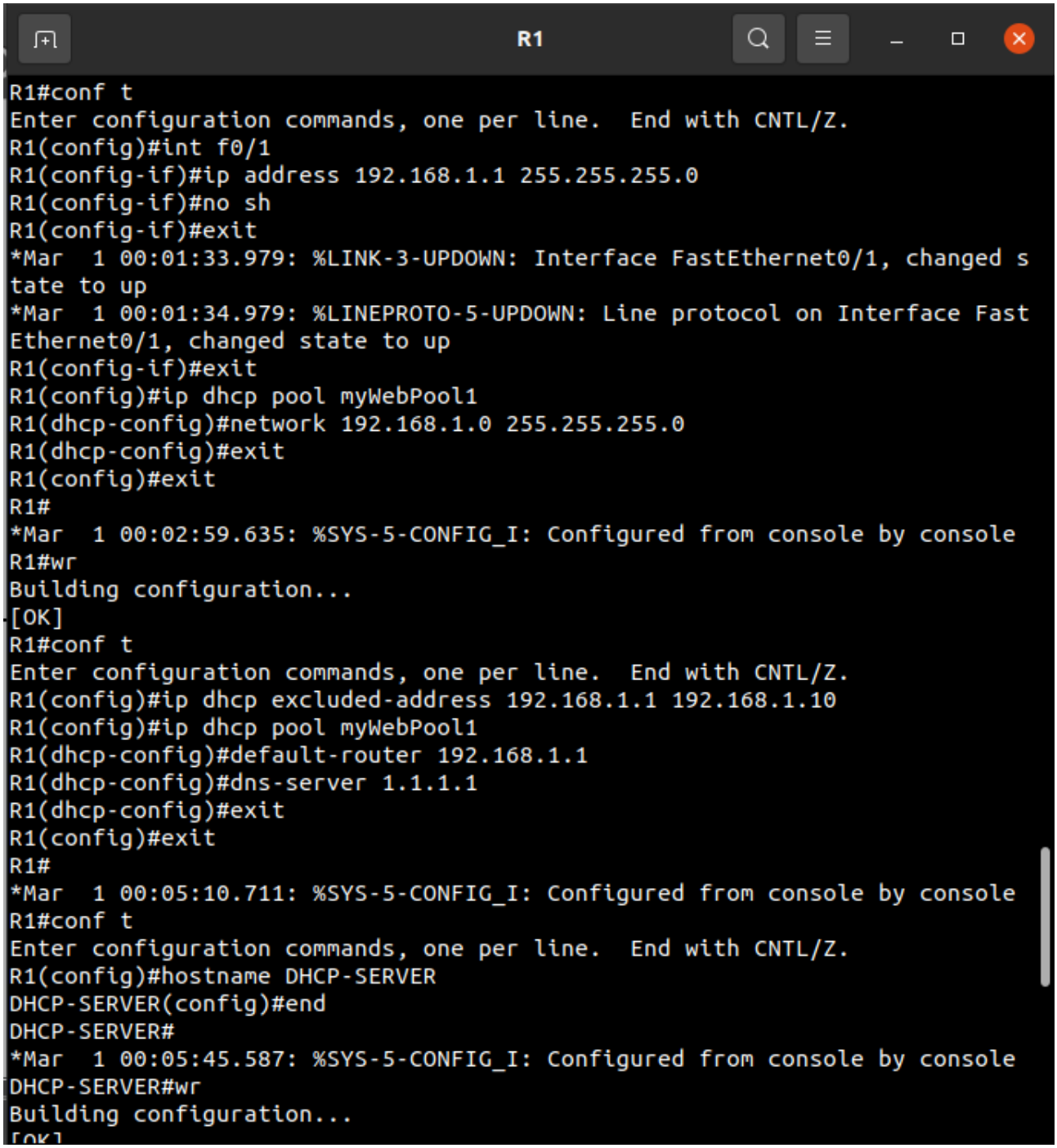
190905514 MOHAMMAD TOFIK BATCH : C3
ROLLNO : 62 SECTION : C SEM : 5th

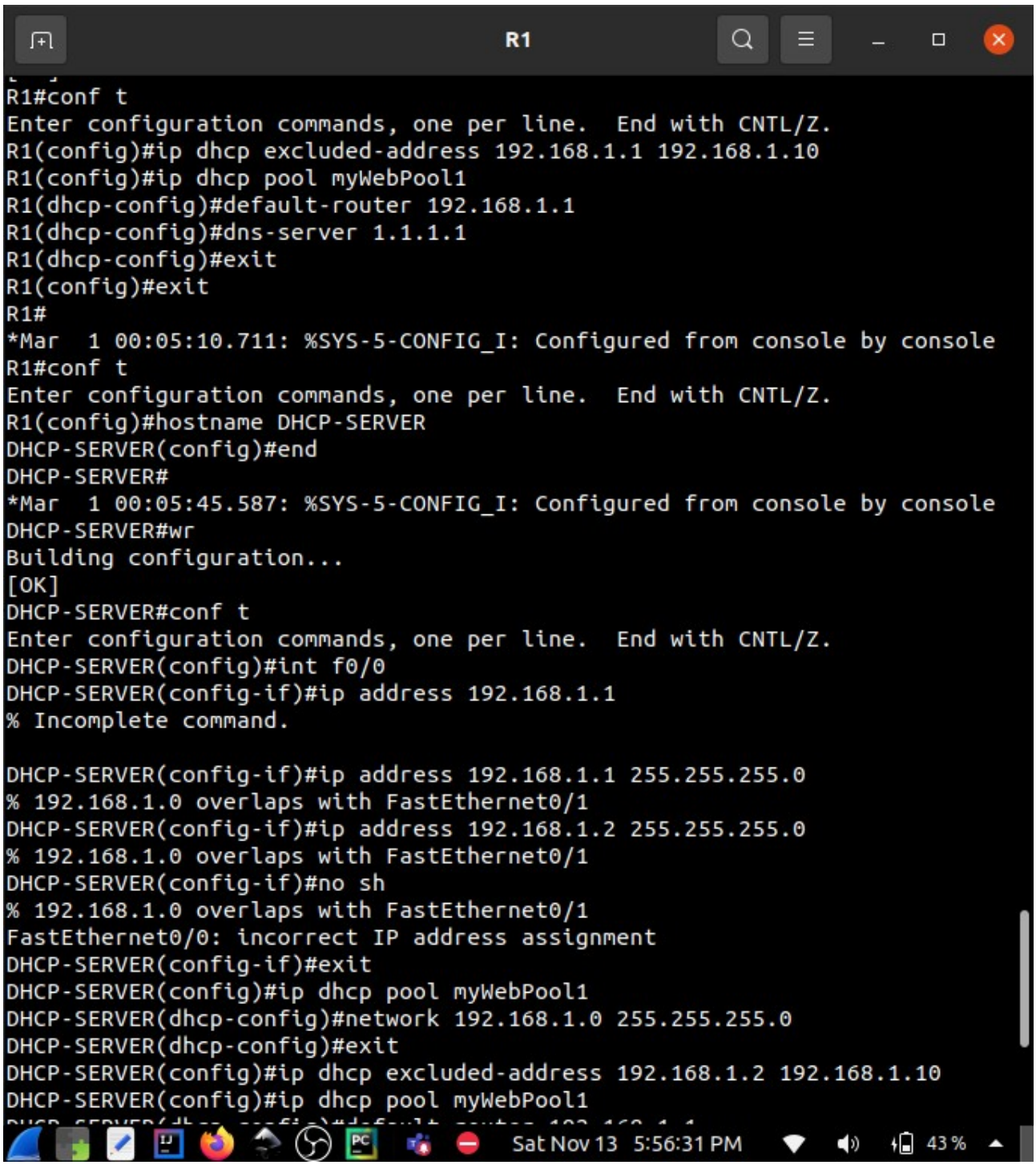
-: CN-LAB-6 :-

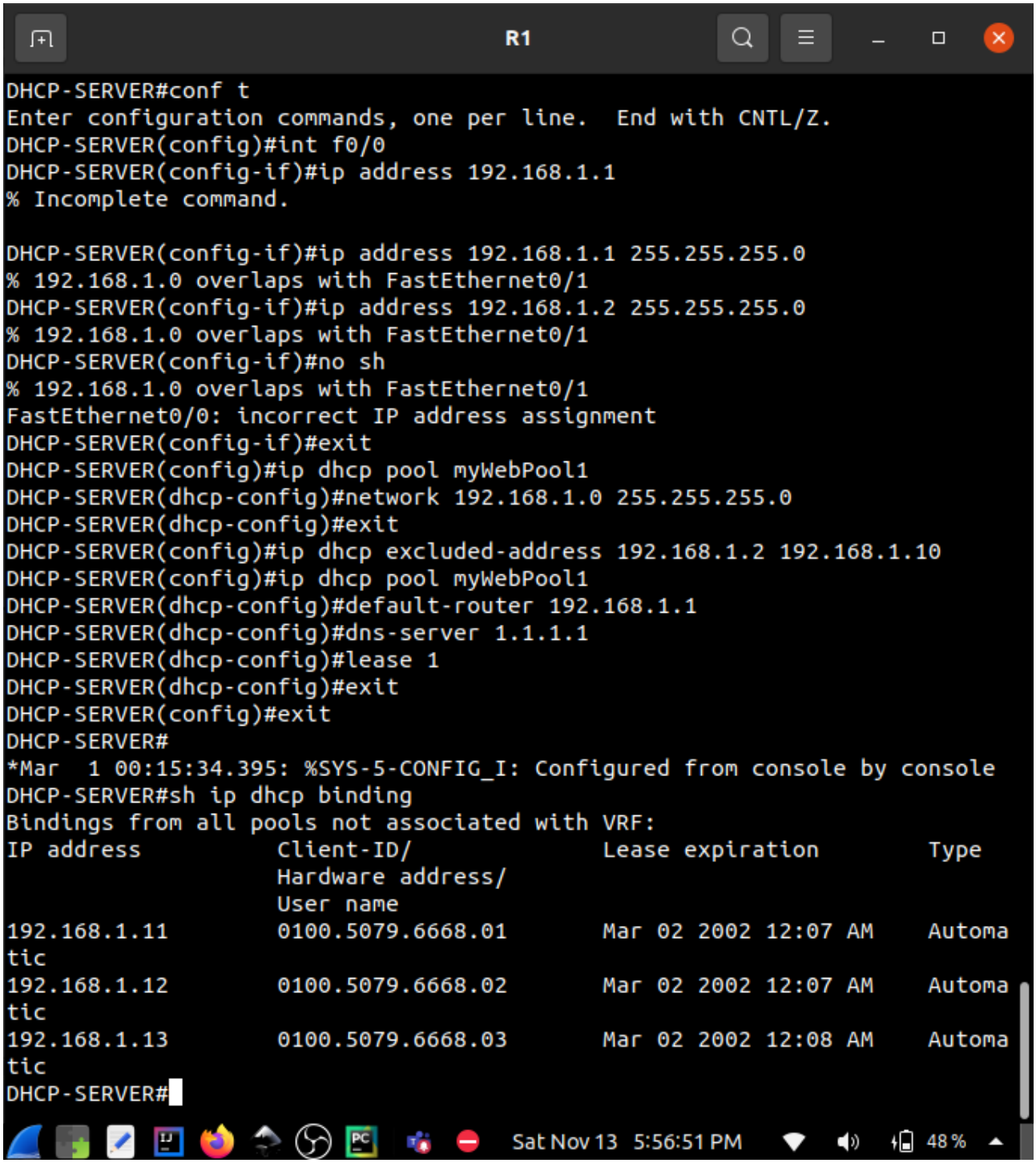
LAB EXCERCISE :



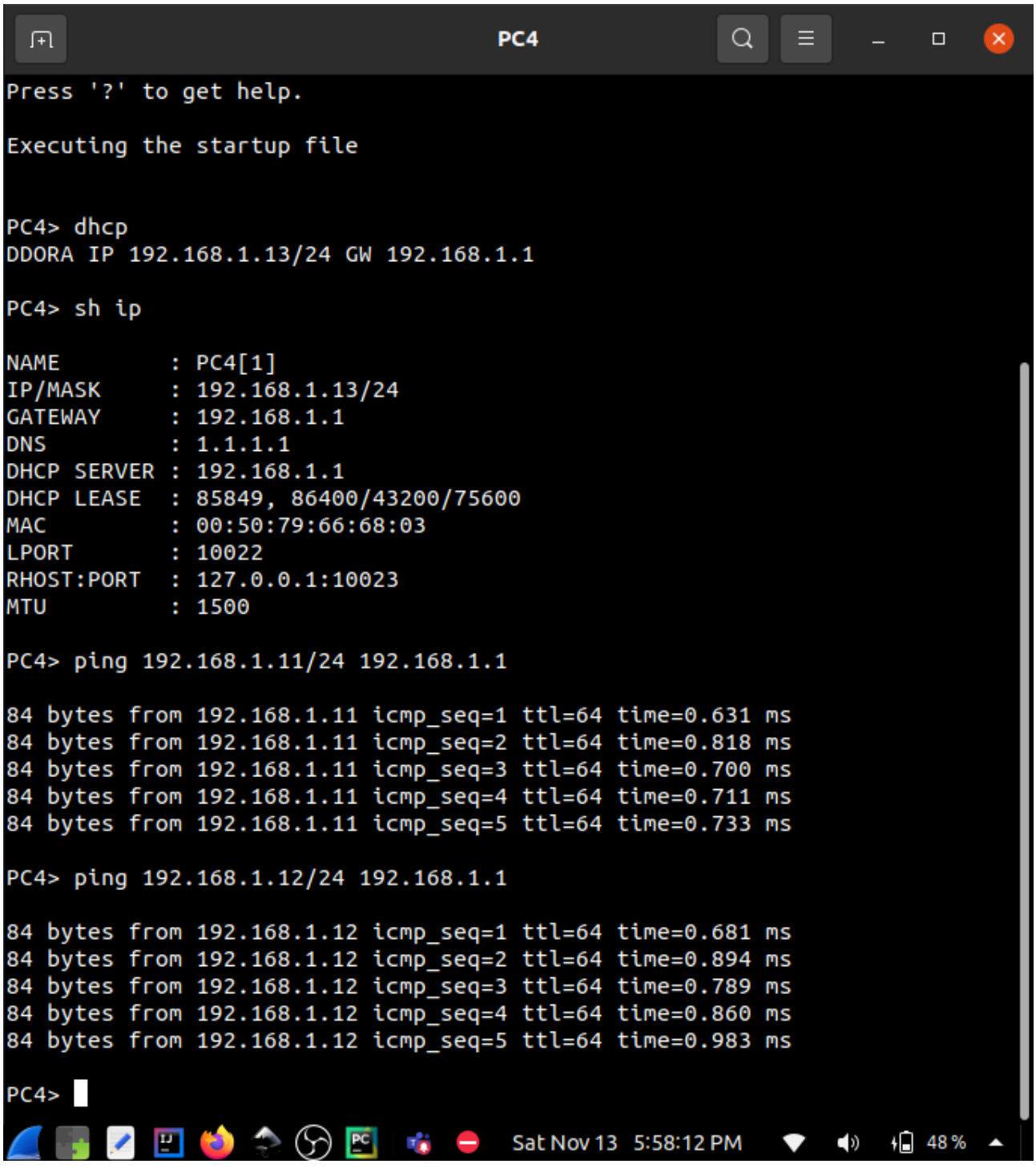
Router R1 Configuration :



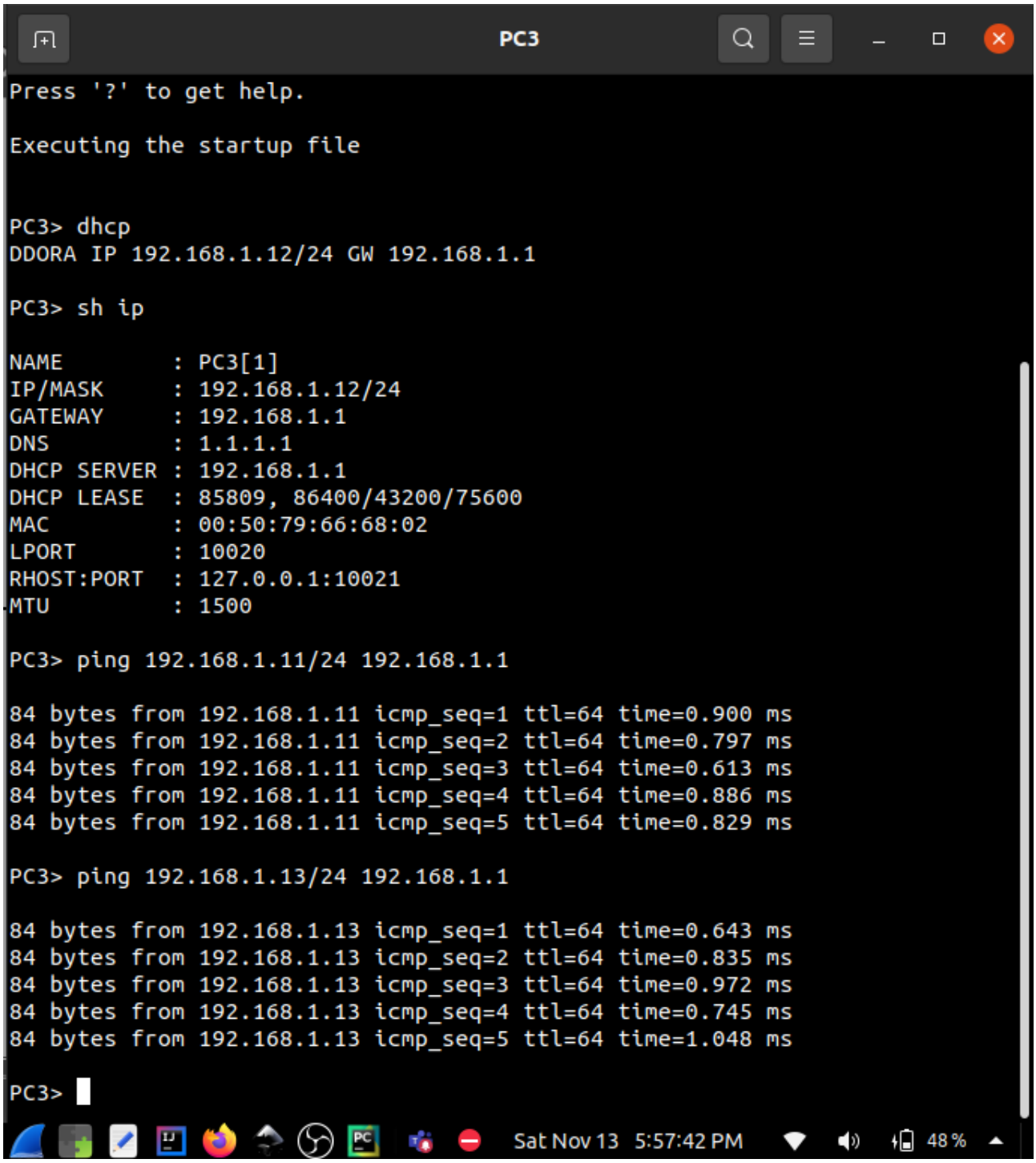

R1
R1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#ip dhcp excluded-address 192.168.1.1 192.168.1.10
R1(config)#ip dhcp pool myWebPool1
R1(dhcp-config)#default-router 192.168.1.1
R1(dhcp-config)#dns-server 1.1.1.1
R1(dhcp-config)#exit
R1(config)#exit
R1#
*Mar 1 00:05:10.711: %SYS-5-CONFIG_I: Configured from console by console
R1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#hostname DHCP-SERVER
DHCP-SERVER(config)#end
DHCP-SERVER#
*Mar 1 00:05:45.587: %SYS-5-CONFIG_I: Configured from console by console
DHCP-SERVER#wr
Building configuration...
[OK]
DHCP-SERVER#conf t
Enter configuration commands, one per line. End with CNTL/Z.
DHCP-SERVER(config)#int f0/0
DHCP-SERVER(config-if)#ip address 192.168.1.1
% Incomplete command.
DHCP-SERVER(config-if)#ip address 192.168.1.1 255.255.255.0
% 192.168.1.0 overlaps with FastEthernet0/1
DHCP-SERVER(config-if)#ip address 192.168.1.2 255.255.255.0
% 192.168.1.0 overlaps with FastEthernet0/1
DHCP-SERVER(config-if)#no sh
% 192.168.1.0 overlaps with FastEthernet0/1
FastEthernet0/0: incorrect IP address assignment
DHCP-SERVER(config-if)#exit
DHCP-SERVER(config)#ip dhcp pool myWebPool1
DHCP-SERVER(dhcp-config)#network 192.168.1.0 255.255.255.0
DHCP-SERVER(dhcp-config)#exit
DHCP-SERVER(config)#ip dhcp excluded-address 192.168.1.2 192.168.1.10
DHCP-SERVER(config)#ip dhcp pool myWebPool1
Sat Nov 13 5:56:31 PM
43 %


R1
DHCP-SERVER#conf t
Enter configuration commands, one per line. End with CNTL/Z.
DHCP-SERVER(config)#int f0/0
DHCP-SERVER(config-if)#ip address 192.168.1.1
% Incomplete command.
DHCP-SERVER(config-if)#ip address 192.168.1.1 255.255.255.0
% 192.168.1.0 overlaps with FastEthernet0/1
DHCP-SERVER(config-if)#ip address 192.168.1.2 255.255.255.0
% 192.168.1.0 overlaps with FastEthernet0/1
DHCP-SERVER(config-if)#no sh
% 192.168.1.0 overlaps with FastEthernet0/1
FastEthernet0/0: incorrect IP address assignment
DHCP-SERVER(config-if)#exit
DHCP-SERVER(config)#ip dhcp pool myWebPool1
DHCP-SERVER(dhcp-config)#network 192.168.1.0 255.255.255.0
DHCP-SERVER(dhcp-config)#exit
DHCP-SERVER(config)#ip dhcp excluded-address 192.168.1.2 192.168.1.10
DHCP-SERVER(config)#ip dhcp pool myWebPool1
DHCP-SERVER(dhcp-config)#default-router 192.168.1.1
DHCP-SERVER(dhcp-config)#dns-server 1.1.1.1
DHCP-SERVER(dhcp-config)#lease 1
DHCP-SERVER(dhcp-config)#exit
DHCP-SERVER(config)#exit
DHCP-SERVER#
*Mar 1 00:15:34.395: %SYS-5-CONFIG_I: Configured from console by console
DHCP-SERVER#sh ip dhcp binding
Bindings from all pools not associated with VRF:
IP address   Client-ID/   Lease expiration   Type
                    Hardware address/
                    User name
192.168.1.11   0100.5079.6668.01   Mar 02 2002 12:07 AM   Automa
tic
192.168.1.12   0100.5079.6668.02   Mar 02 2002 12:07 AM   Automa
tic
192.168.1.13   0100.5079.6668.03   Mar 02 2002 12:08 AM   Automa
tic
DHCP-SERVER#
Sat Nov 13 5:56:51 PM
48 %

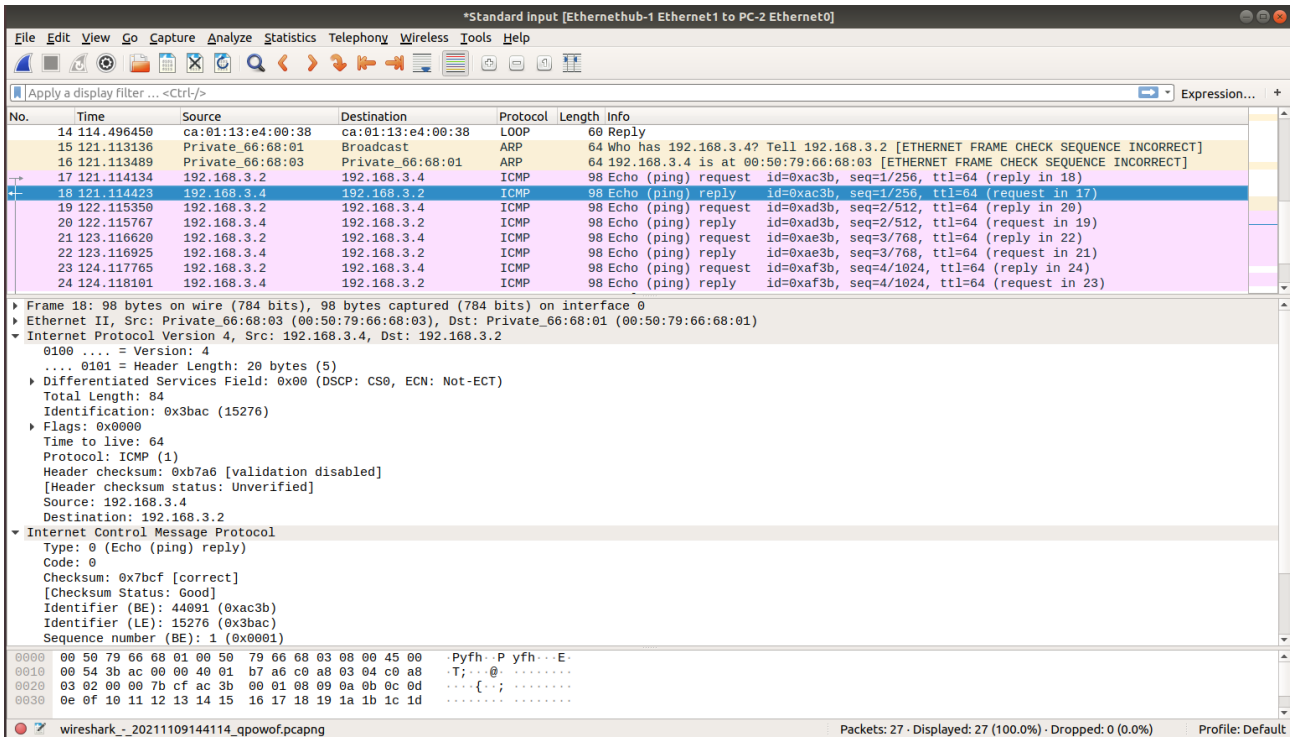
ping pc4 to pc2 and pc3 :



ping pc3 to pc4 and pc2



Wireshark output for ping from PC2 to PC4



Wireshark output for dhcp on PC2