

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**“JnanaSangama”, Belgaum -590014, Karnataka.**



## **LAB RECORD**

### **Computer Network Lab (23CS5PCCON)**

*Submitted by*

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*in partial fulfillment for the award of the degree of*

**BACHELOR OF ENGINEERING  
in  
COMPUTER SCIENCE AND ENGINEERING**



**B.M.S. COLLEGE OF ENGINEERING  
(Autonomous Institution under VTU)  
BENGALURU-560019  
Academic Year 2024-25 (odd)**

# B.M.S. College of Engineering

Bull Temple Road, Bangalore 560019

(Affiliated To Visvesvaraya Technological University, Belgaum)

## Department of Computer Science and Engineering



### CERTIFICATE

This is to certify that the Lab work entitled “ Computer Network (23CS5PCCON)” carried out by **Mahantesh V N(1BM23CS175)**, who is bonafide student of **B.M.S. College of Engineering**. It is in partial fulfilment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visvesvaraya Technological University, Belgaum. The Lab report has been approved as it satisfies the academic requirements of the above-mentioned subject and the work prescribed for the said degree.

Praveen N Assistant Professor Department of CSE, BMSCE	Dr. Kavitha Sooda Professor & HOD Department of CSE, BMSCE
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Github: <https://github.com/Mahanteshvn/CN LAB>

### Program 1

Aim : Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate ping message.

Observation:

LAB-1°

Scenarios 1°: Communication between two P.C.'s.

- Create two P.C's: PC<sub>0</sub>, PC<sub>1</sub>.
- Connect them using copper wire (crossover).
- click on PC<sub>0</sub> and set it's IP address to:  
192.168.1.2.
- click on PC<sub>1</sub> and set it's IP address to:  
192.168.1.3.
- To test both P.C are pinging add sample PDU and check the states.

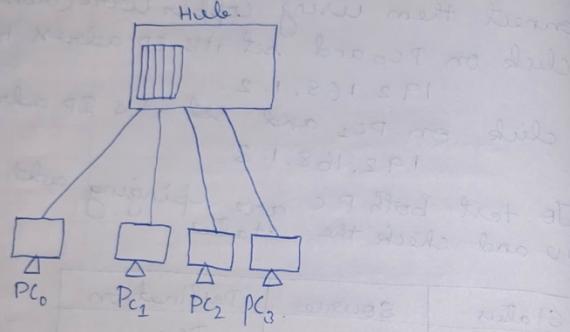
Status	Source	Destination.
Successful	PC <sub>0</sub>	PC <sub>1</sub> .

Scenarios 2°: Communication between P.C's via hub

- Create some P.C's (PC<sub>0</sub>, PC<sub>1</sub>, PC<sub>2</sub>, PC<sub>3</sub>).
- Setup a hub.
- Connect each P.C to the hub using copper straight-through wire.
- click on each P.C and assign IP address to each P.C. and Subnet mask 255.255.255.0
- To test sample ping add a sample PDU from one P.C to another and check the states.

Output:

Status	Source	Destination
Successful	PC0	PC1.

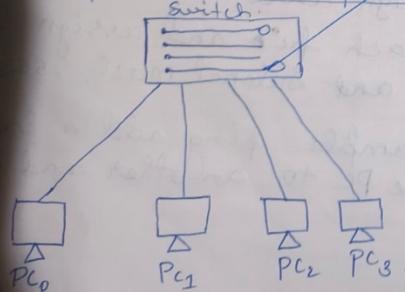


Scenario 3 : Communication between PC's via Switch.

- (i) Follow the same steps in scenario 2.
- (ii) Instead of hub use switch to connect.
- (iii) Then ping any two PC's with PDU and check the states.

Output:

Status	Source	Destination
Successful	PC0	PC1.

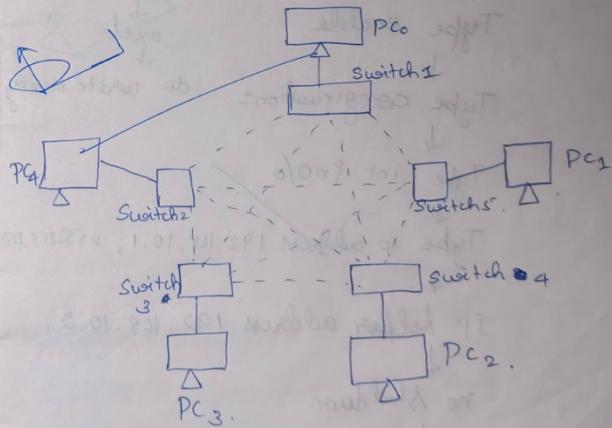


Scenario 4 : Mesh network using Switch.

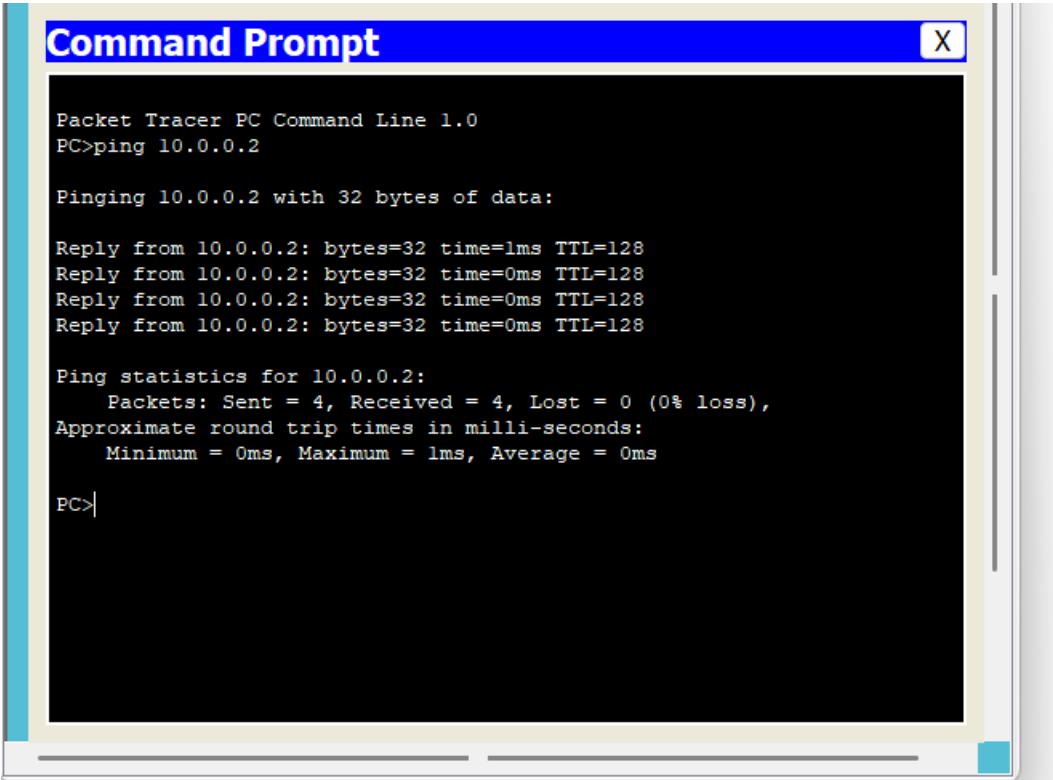
- (i) Setup PC's in a mesh pattern, for each PC setup an unique switch.
- (ii) Connect each PC to an unique switch.
- (iii) Connect each switch to other switch.
- (iv) Set up the IP address of each PC where from: 192.168.1.2
- (v) Set up the Subnet mask to 255.255.255.0
- (vi) Test the connectivity by adding simple PDU.

Output:

Status	Source	Destination
Successful	PC0	PC4.
Successful	PC1	PC2.



Output:



Command Prompt

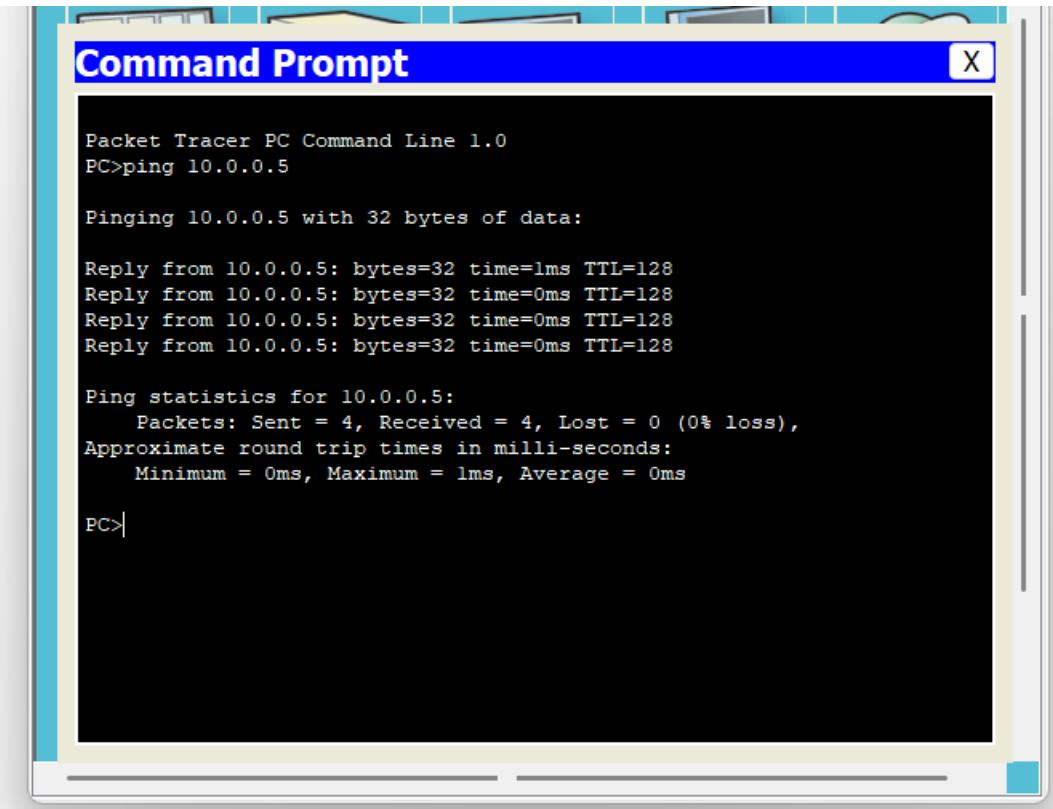
```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=1ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>
```



Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.5

Pinging 10.0.0.5 with 32 bytes of data:

Reply from 10.0.0.5: bytes=32 time=1ms TTL=128
Reply from 10.0.0.5: bytes=32 time=0ms TTL=128
Reply from 10.0.0.5: bytes=32 time=0ms TTL=128
Reply from 10.0.0.5: bytes=32 time=0ms TTL=128

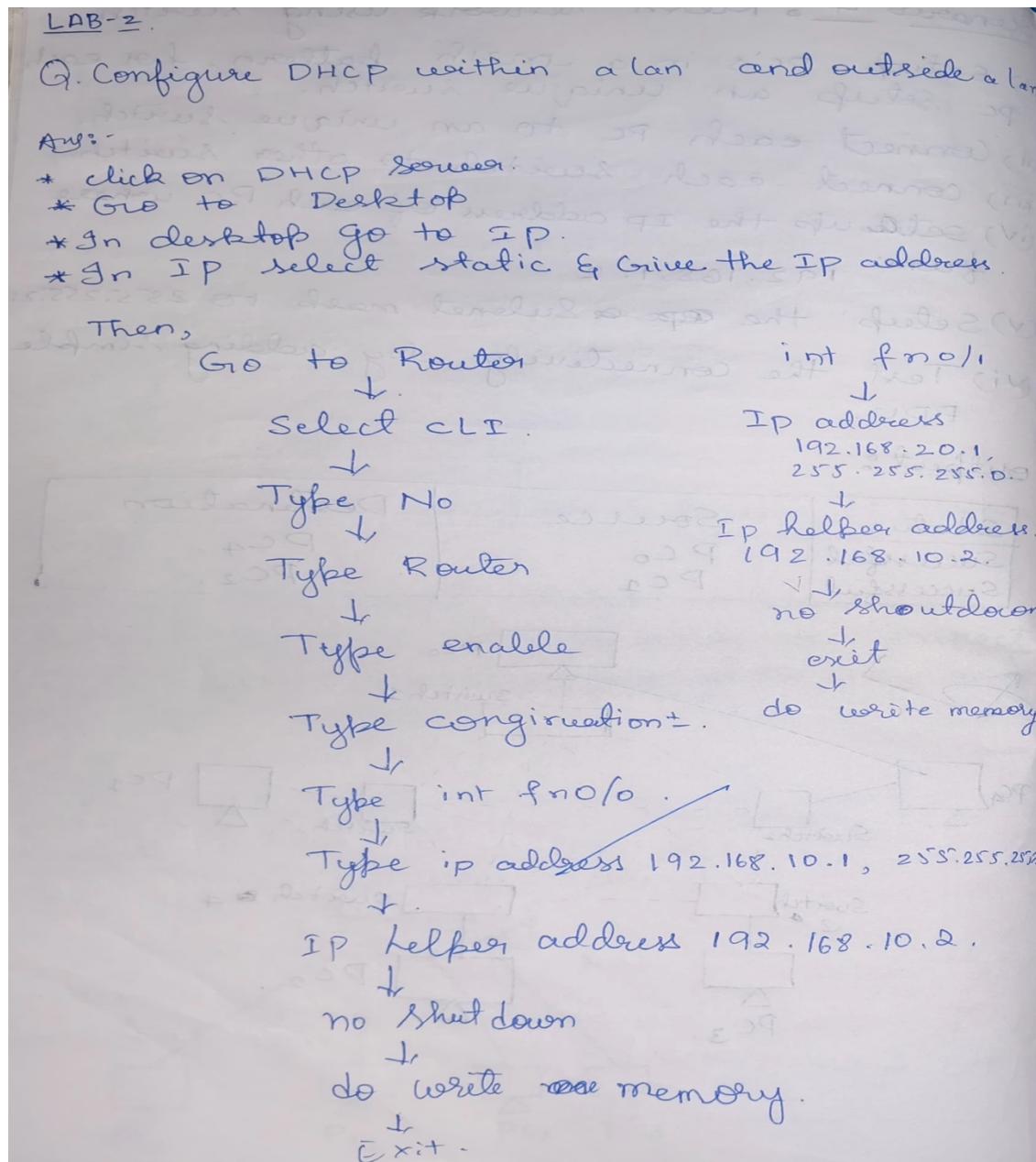
Ping statistics for 10.0.0.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>
```

## Program 2

Aim : Configure IP address to routers in packet tracer. Explore the following messages: ping responses, destination unreachable, request timed out, reply

Observation:



DHCP.

↳ Desktop IP configuration.

↳ Static.

↳ 192.168.10.2.

↳ 192.168.10.1.

Gateway.

\*Server :.

.Services :.

DHCP

Pool name

Gateway

Start IP

Subnet mask

Switch one.

192.168.10.1

192.168.10.3

255.255.255.0

O.N.

Switch Two.

192.168.20.1

192.168.20.2

255.255.255.0

Switch two port 1 att 192.168.20.1  
Switch two port 2 att 192.168.20.2

Switch two port 3 att 192.168.10.1  
Switch two port 4 att 192.168.10.3

Switch two port 5 att 192.168.10.2  
Switch two port 6 att 192.168.10.4

Switch two port 7 att 192.168.10.5  
Switch two port 8 att 192.168.10.6

Switch two port 9 att 192.168.10.7  
Switch two port 10 att 192.168.10.8

Switch two port 11 att 192.168.10.9  
Switch two port 12 att 192.168.10.10

Output:

## Command Prompt

X

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

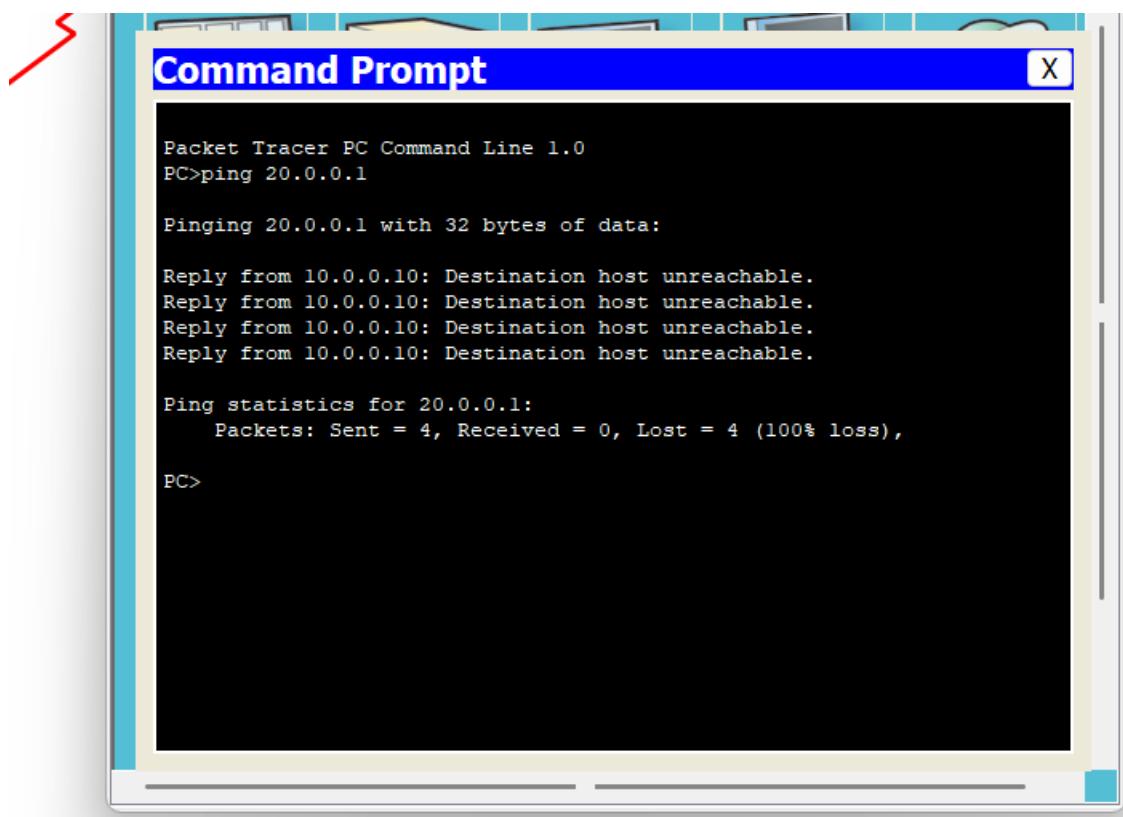
Ping statistics for 10.0.0.1:
  Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>
```

```
[connection to 10.0.0.1 closed by foreign host]
PC>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1: bytes=32 time=3ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255

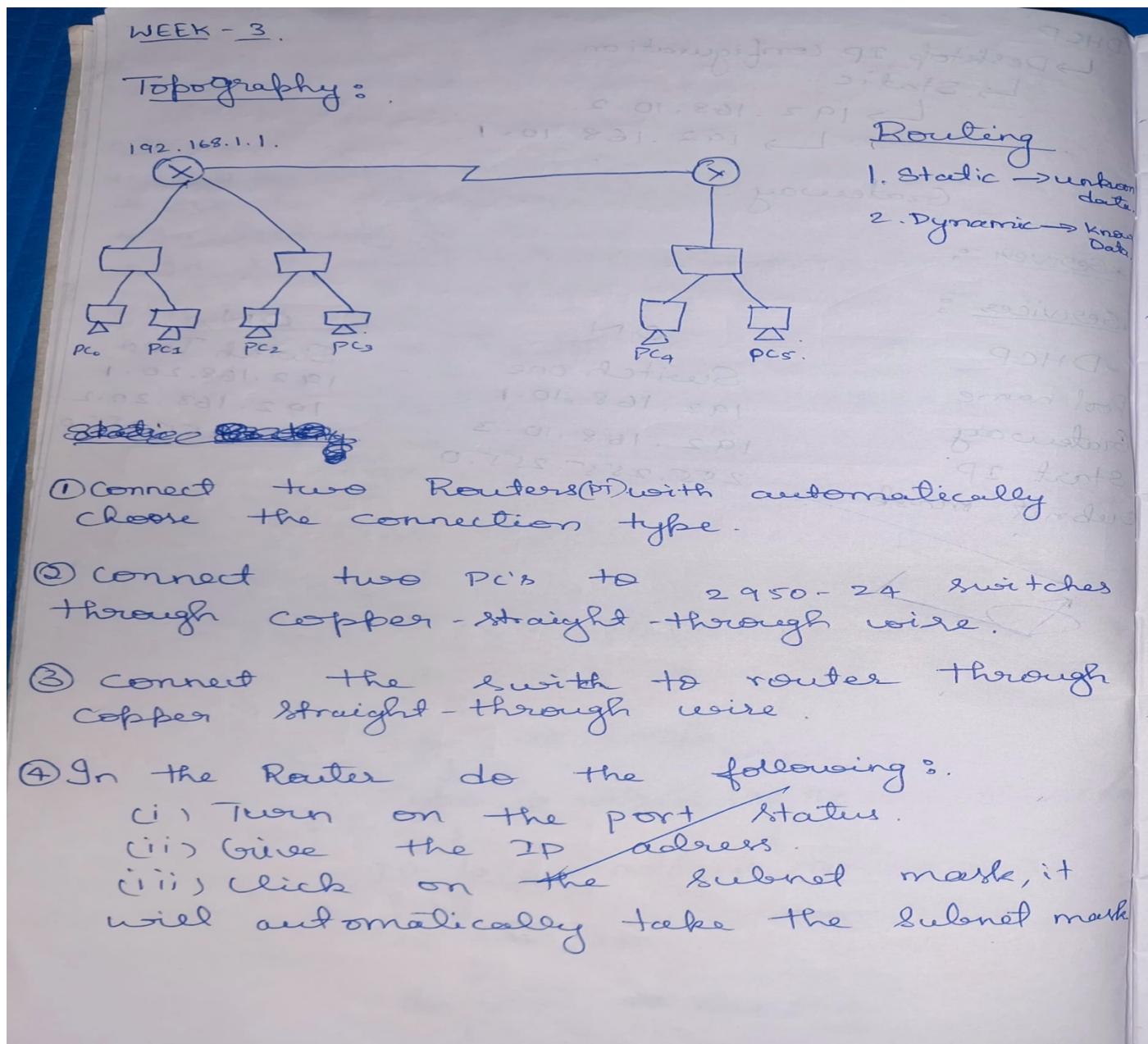
Ping statistics for 10.0.0.1:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 3ms, Average = 0ms
PC>
```



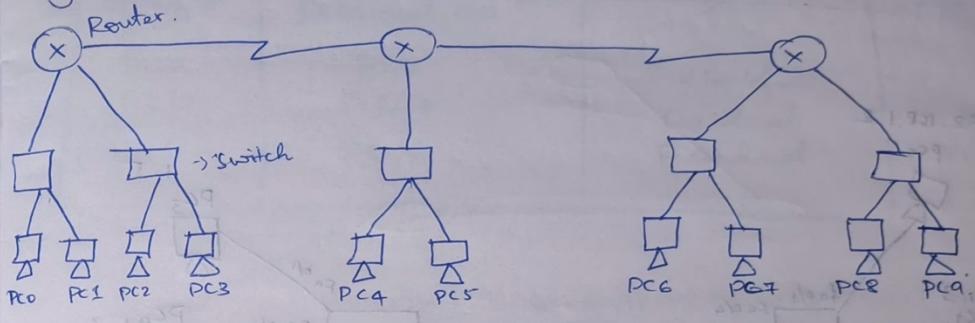
### Program 3

Aim : Configure IP address to routers in packet tracer. Explore the following messages: ping responses, destination unreachable, request timed out, reply

Observation:



When we try to ping PC<sub>0</sub> to PC<sub>4</sub> it is not pinging due to static routing we can solve it by:



Now if we try to ping any pc from any pc it's working due to static Routing.

It is done by going to Router,

Selecting the static, then,

Giving the network address,

Giving the mask address as 255.255.255.0

manually and for the new connection

repeat the above steps.

OUTPUT:

Source	Destination	Status
PC0	PC5	Successful.

~~Dynamic Routing~~

of this (fig 2) distinction  
between static & dynamic

Output:

```
Command Prompt X
Pinging 20.0.0.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 20.0.0.1:
  Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Reply from 20.0.0.1: bytes=32 time=23ms TTL=125
Reply from 20.0.0.1: bytes=32 time=2ms TTL=125
Reply from 20.0.0.1: bytes=32 time=17ms TTL=125
Reply from 20.0.0.1: bytes=32 time=15ms TTL=125

Ping statistics for 20.0.0.1:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 2ms, Maximum = 23ms, Average = 14ms
PC>
```

```
Command Prompt X
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1: bytes=32 time=20ms TTL=125
Reply from 10.0.0.1: bytes=32 time=27ms TTL=125
Reply from 10.0.0.1: bytes=32 time=3ms TTL=125
Reply from 10.0.0.1: bytes=32 time=2ms TTL=125

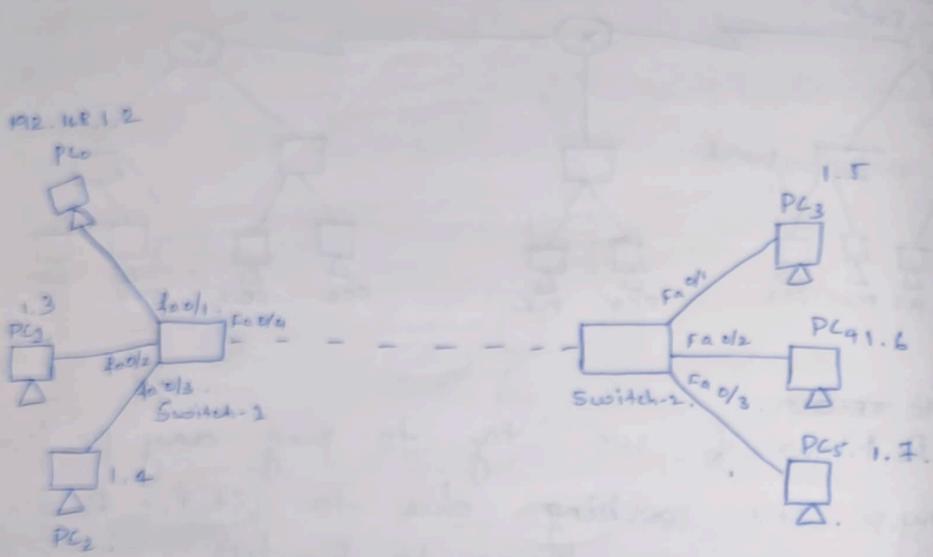
Ping statistics for 10.0.0.1:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 2ms, Maximum = 27ms, Average = 13ms
PC>
```

#### **Program 4**

Aim : Configure DHCP within a LAN and outside LAN.

Observation:

WEEK-4



Switchport mode trunk.

fa0/1      PC0      fa0/2 PC1      fa0/3 PC2.  
fa0/1      PC3      fa0/2 PC4      fa0/3 PC5.

(i) Go to switch1 then select config.

then,

(ii) Switch > enable.

(iii) & switch# configt

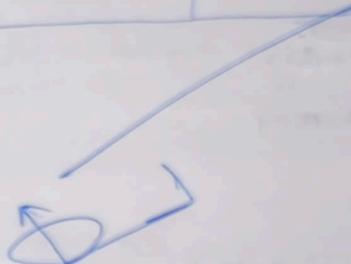
(iv) switch(config)# int fa 0/1.  
                  switchport access vlan 10.

int fa 0/3.  
switchport access vlan 30.

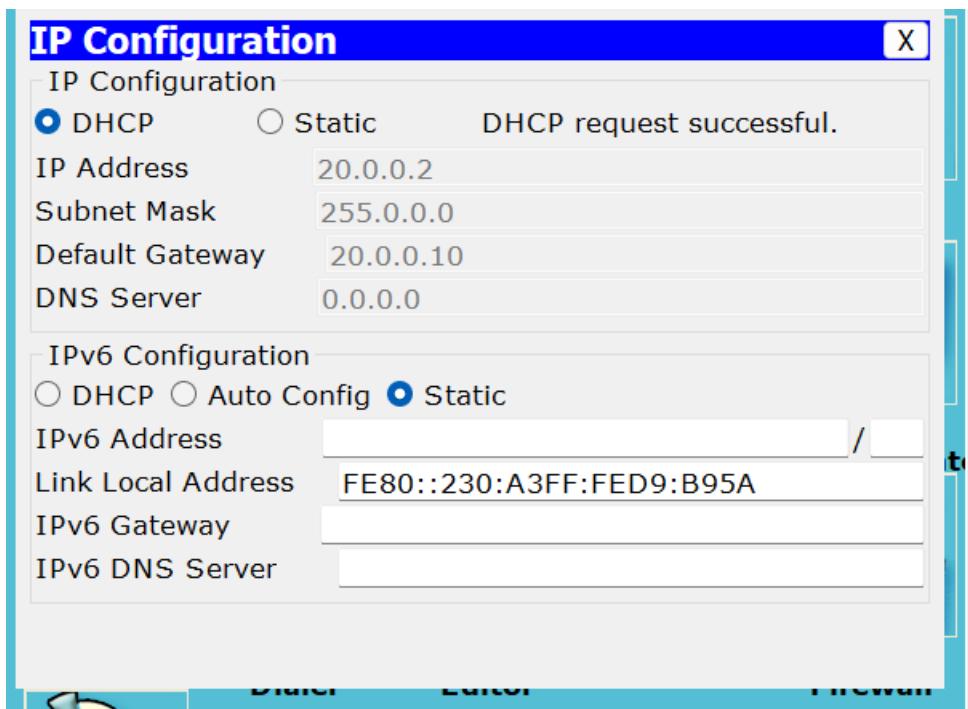
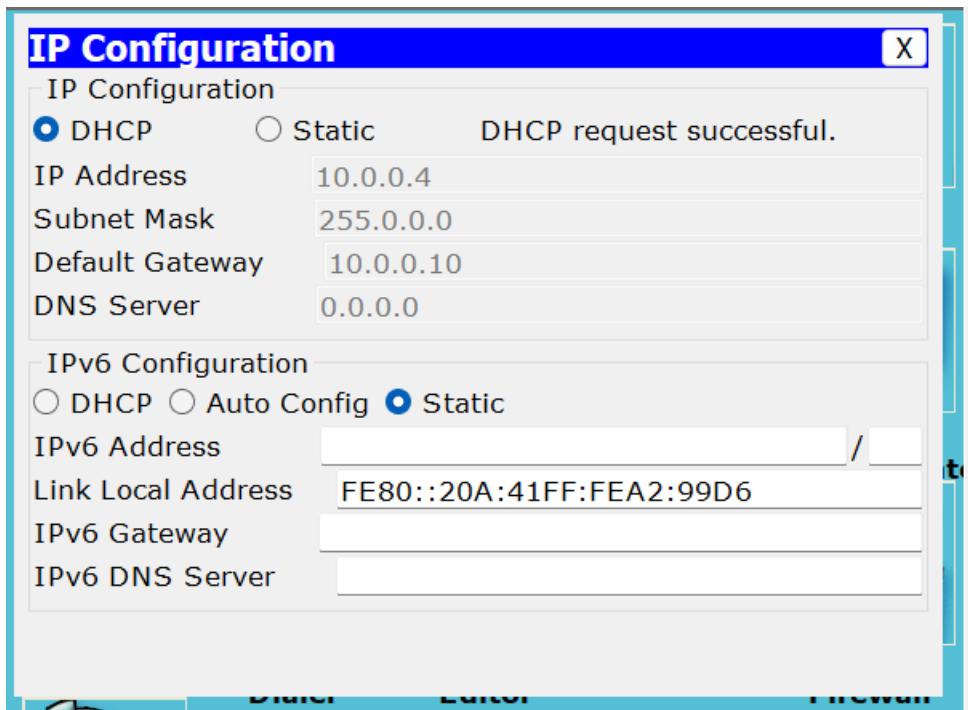
Repeat the same for switch 2 then,  
the output will be

Output:

Source	Destination.	status .
PC0	PC1	Successful
PC0	PC4	Failed
PC0	PC5	Failed



Output:

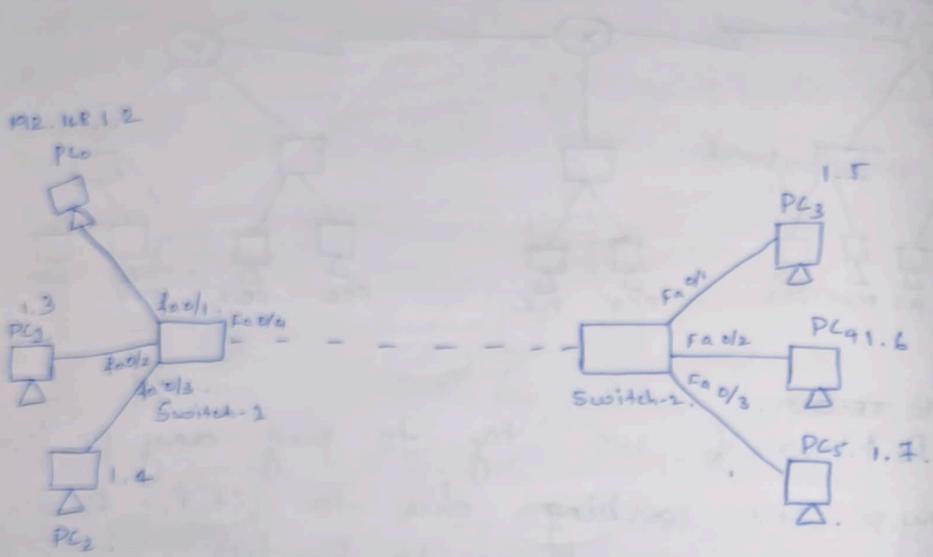


### **Program 5**

Aim : Configure RIP routing Protocol in Routers

Observations :

WEEK-4



Switchport mode trunk.

fa0/1      PC0      fa0/2 PC1      fa0/3 PC2.  
fa0/1      PC3      fa0/2 PC4      fa0/3 PC5.

(i) Go to switch1 then select config.

then,

(ii) Switch > enable.

(iii) & switch# configt

(iv) switch(config)# int fa 0/1.  
                  switchport access vlan 10.

int fa 0/3.  
switchport access vlan 30.



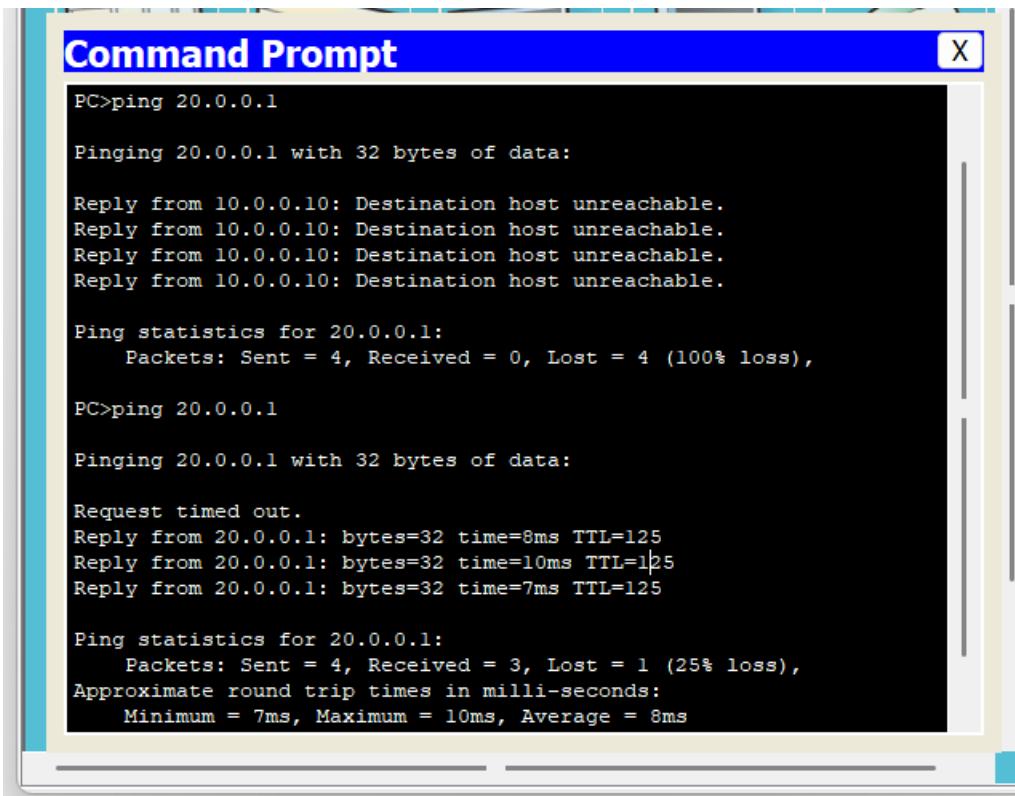
Repeat the same for switch 2 then,  
the output will be.

Output:

Source	Destination.	Status .
PC0	PC1	Successful.
PC0	PC4	Failed
PC0	PC5	Failed



Output:



The screenshot shows a Windows-style Command Prompt window titled "Command Prompt". The window contains the following text output:

```
PC>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Reply from 10.0.0.10: Destination host unreachable.

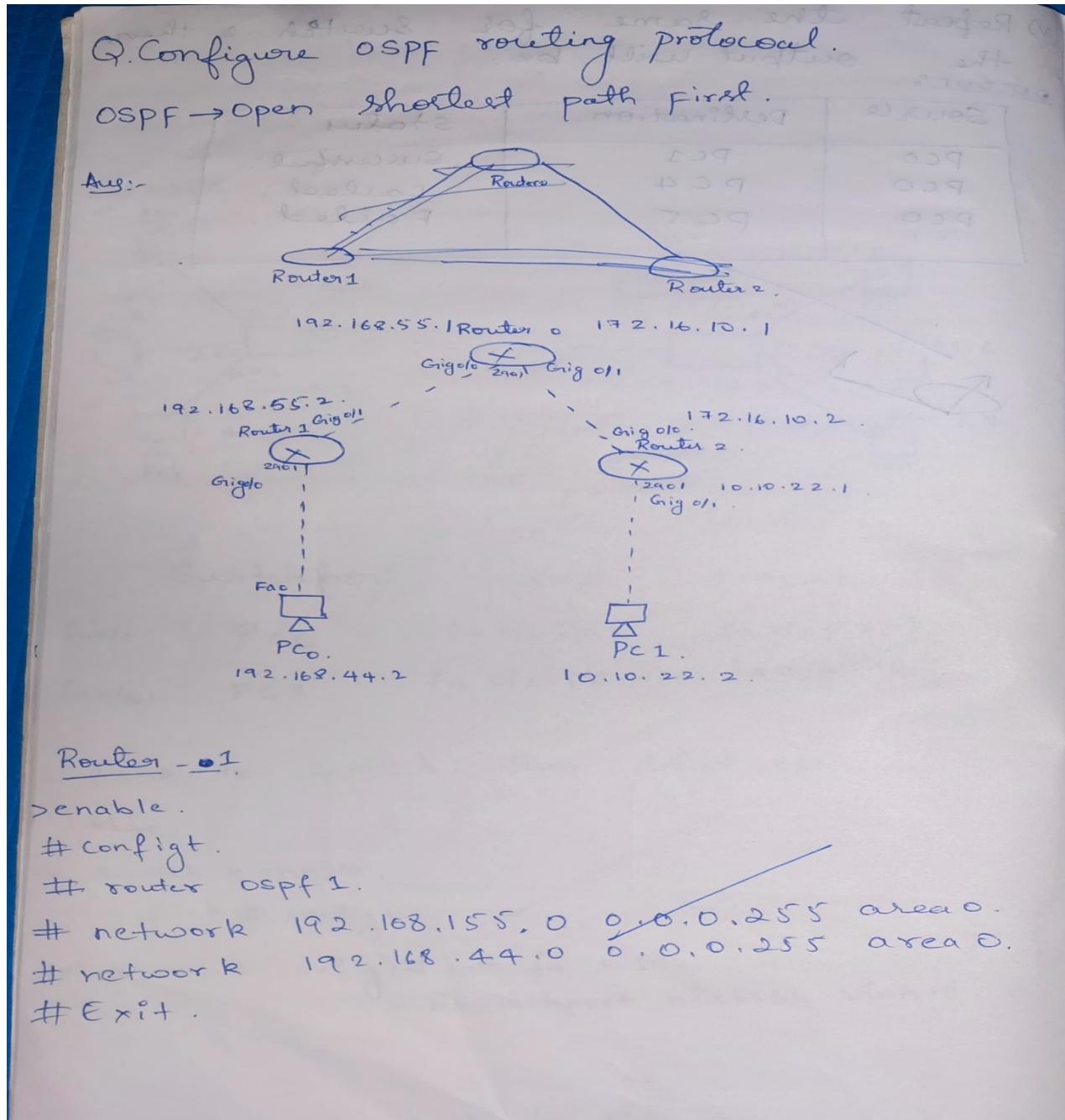
Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Request timed out.
Reply from 20.0.0.1: bytes=32 time=8ms TTL=125
Reply from 20.0.0.1: bytes=32 time=10ms TTL=125
Reply from 20.0.0.1: bytes=32 time=7ms TTL=125

Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 7ms, Maximum = 10ms, Average = 8ms
```

## Program 6

Aim : Configure OSPF routing Protocol

Observations:



Router - 0 :

```
#router ospf 1.
#network 192.168.55.0 0.0.0.255.
#network 172.16.0.0 0.0.0.255.255.
```

Trunk link is present between both routers in area 0  
#exit.

Router - 2 : Router 2 has no link to R1

#router ospf 1.

```
# network 172.16.0.0 0.0.255.255 area 0.
# network 10.0.0.0 0.0.0.255.255 area 0.
```

OUTPUT :

Source	Destination	Status
PC0	PC1	Successful.



1111	1111
1011	1011
101	101
0110	0110
101	101
11100	11100
101	101
101000	101000
101	101
00000	00000

Output:

```
Command Prompt X

Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.10

Pinging 40.0.0.10 with 32 bytes of data:

Request timed out.
Reply from 40.0.0.10: bytes=32 time=8ms TTL=125
Reply from 40.0.0.10: bytes=32 time=7ms TTL=125
Reply from 40.0.0.10: bytes=32 time=7ms TTL=125

Ping statistics for 40.0.0.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 8ms, Average = 7ms

PC>`ping 10.0.0.1
Invalid Command.

PC>ping 20.0.0.2

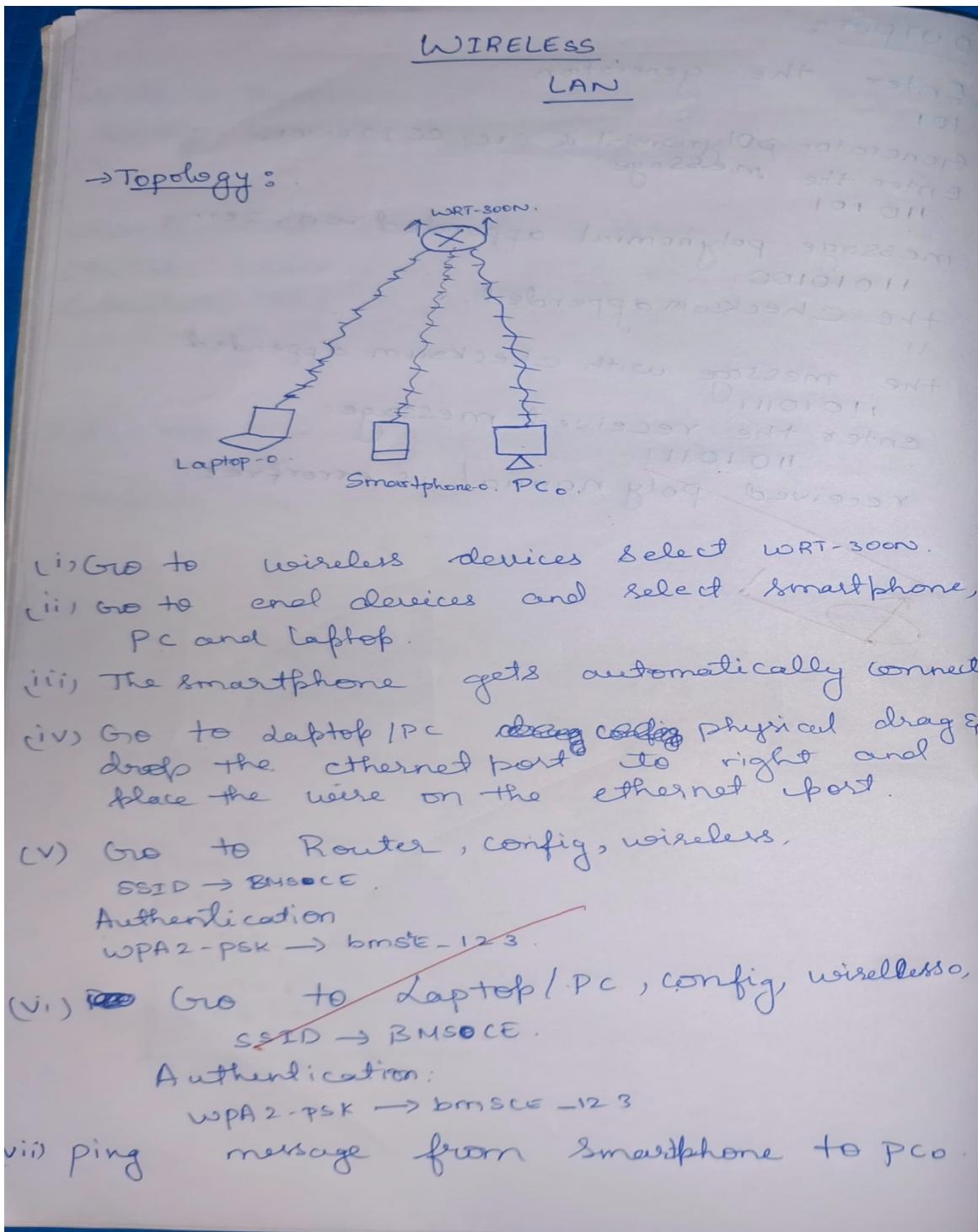
Pinging 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2: bytes=32 time=8ms TTL=254
Reply from 20.0.0.2: bytes=32 time=5ms TTL=254
```

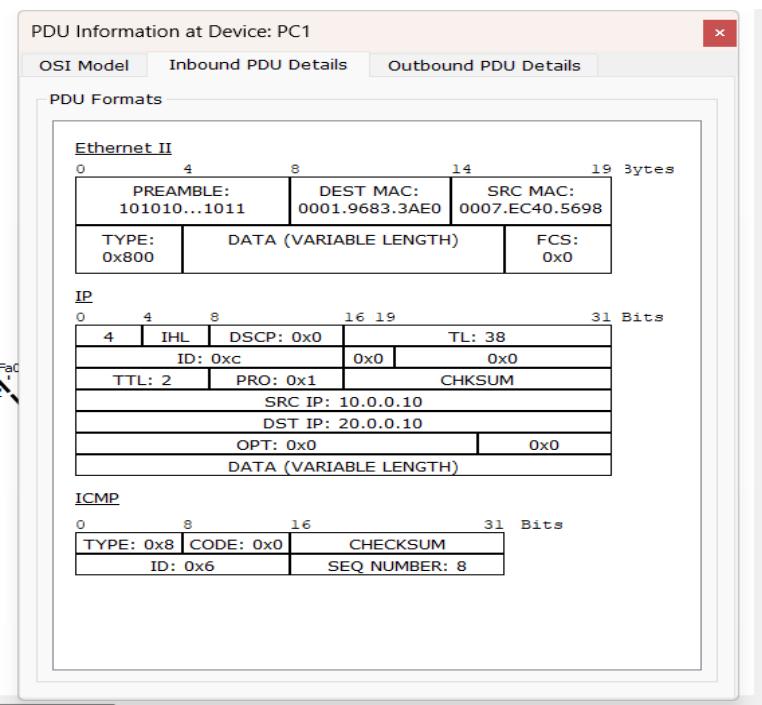
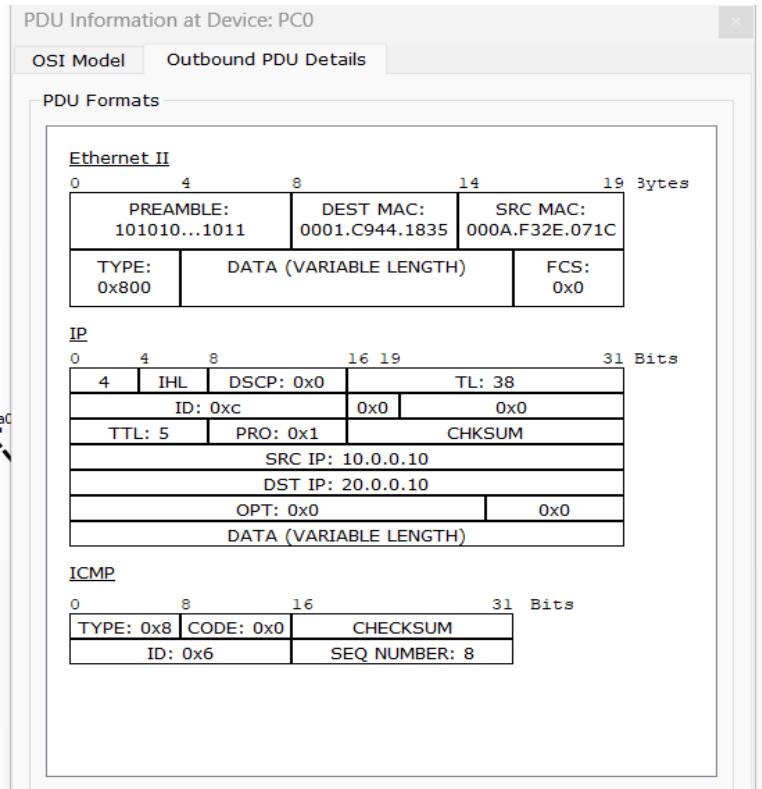
## Program 7

Aim : Demonstrate the TTL/ Life of a Packet

Observations:



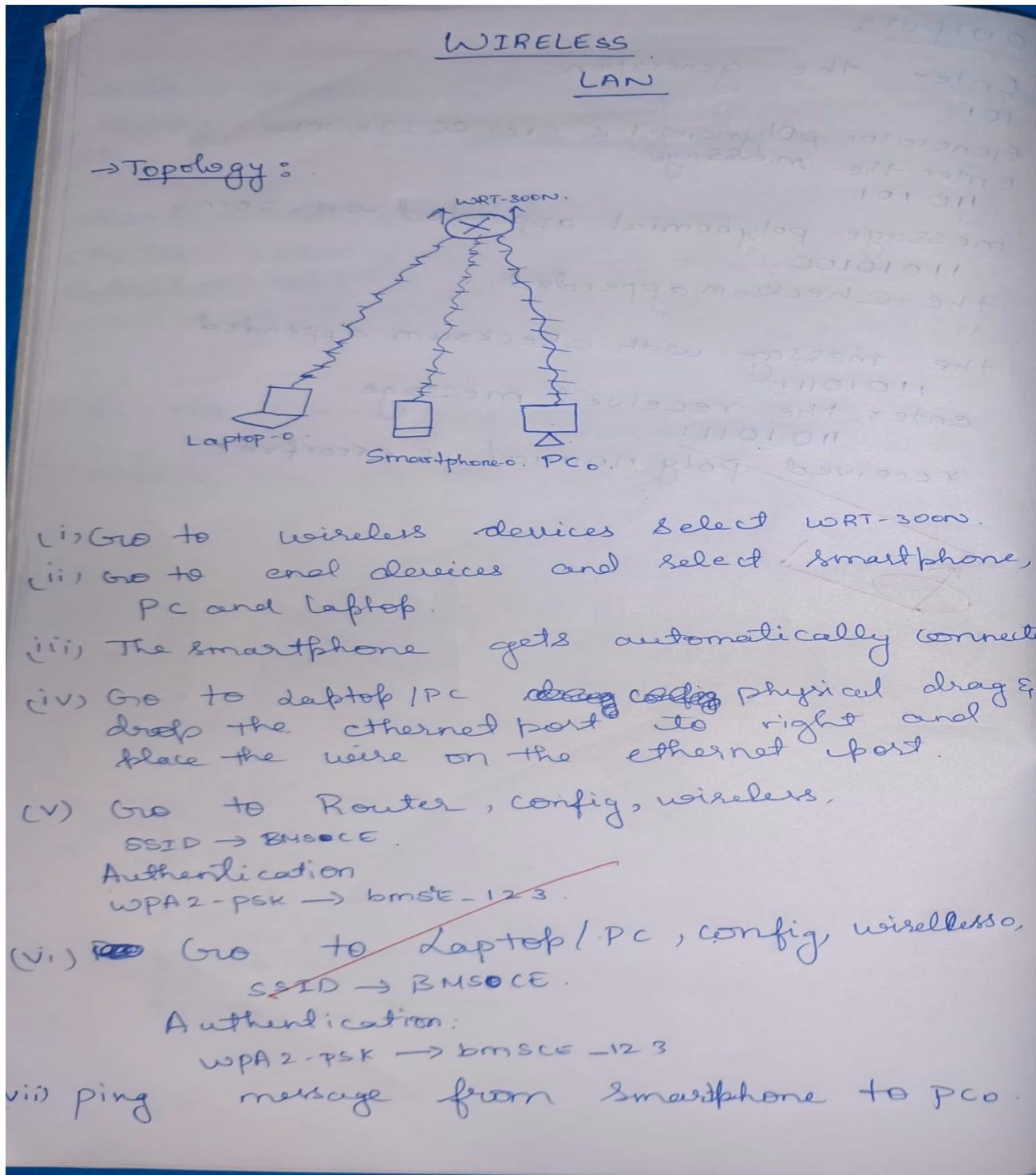
## Output:



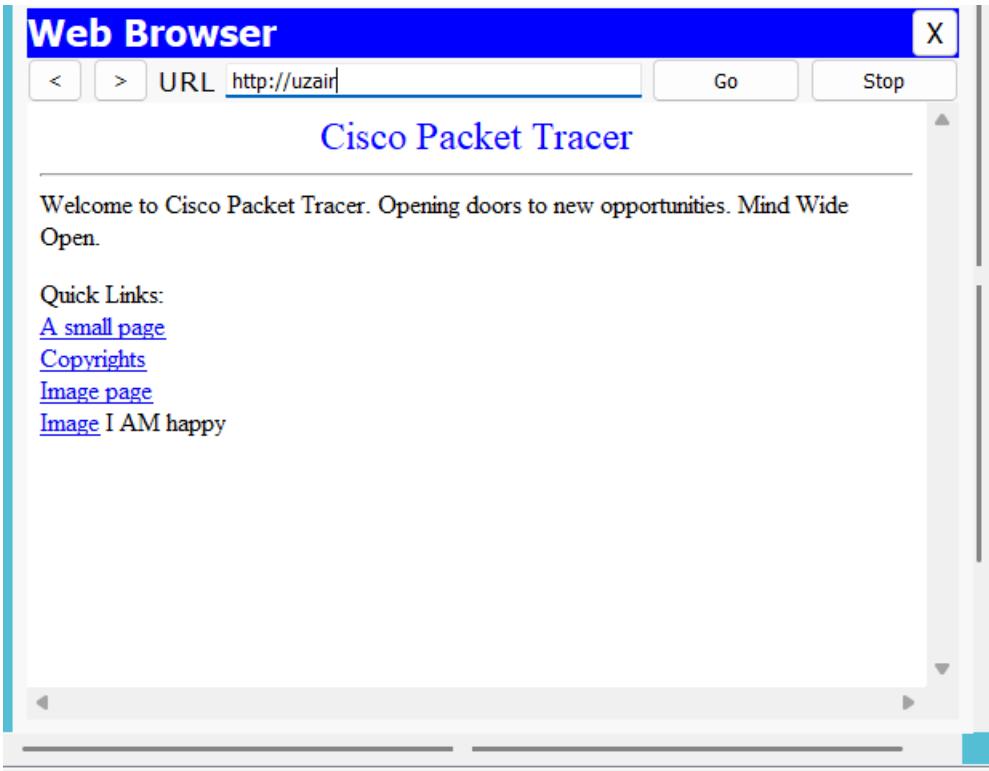
## Program 8

Aim : Configure Web Server, DNS within a LAN.

Observation:



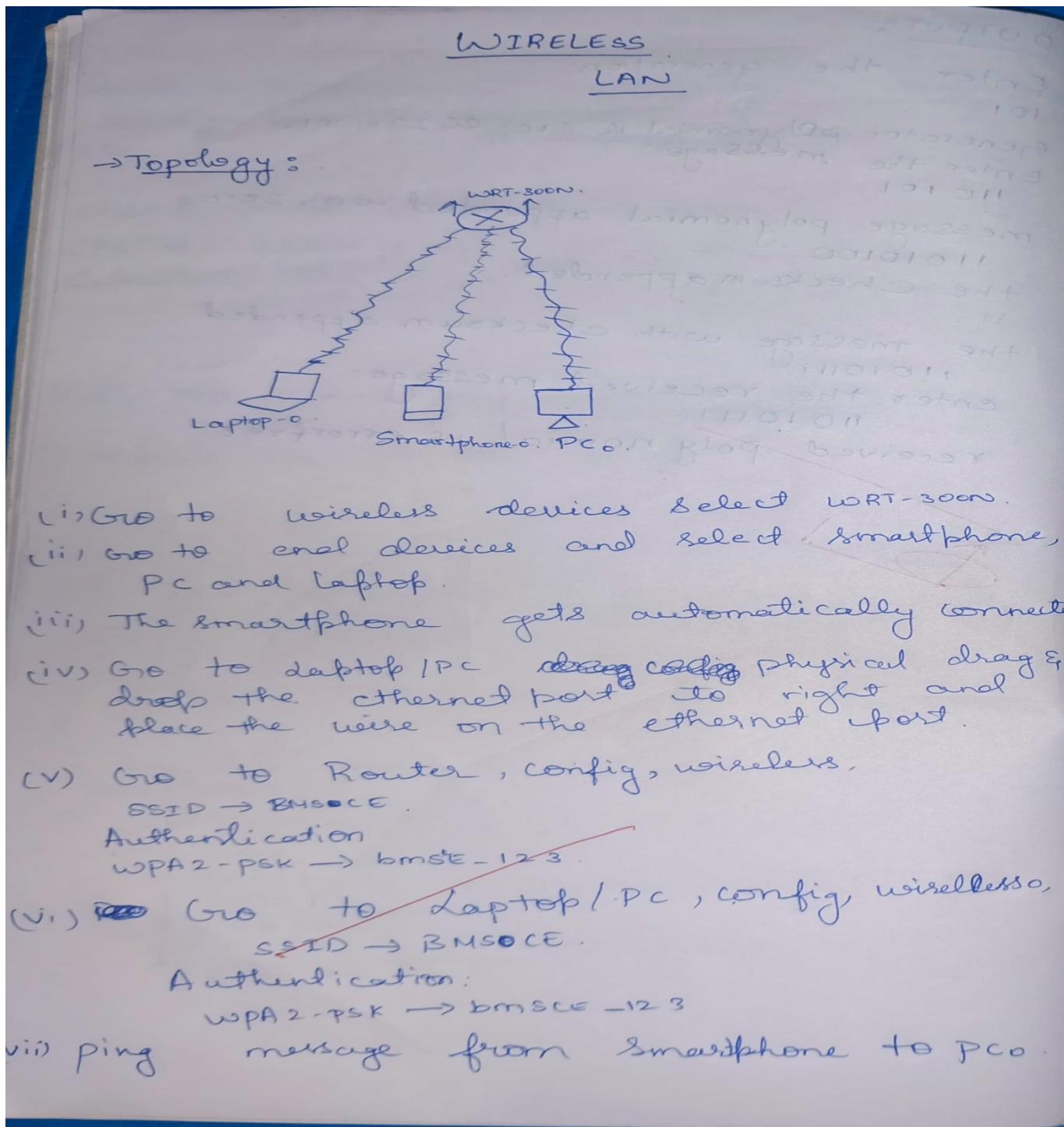
Output:



## Program 9

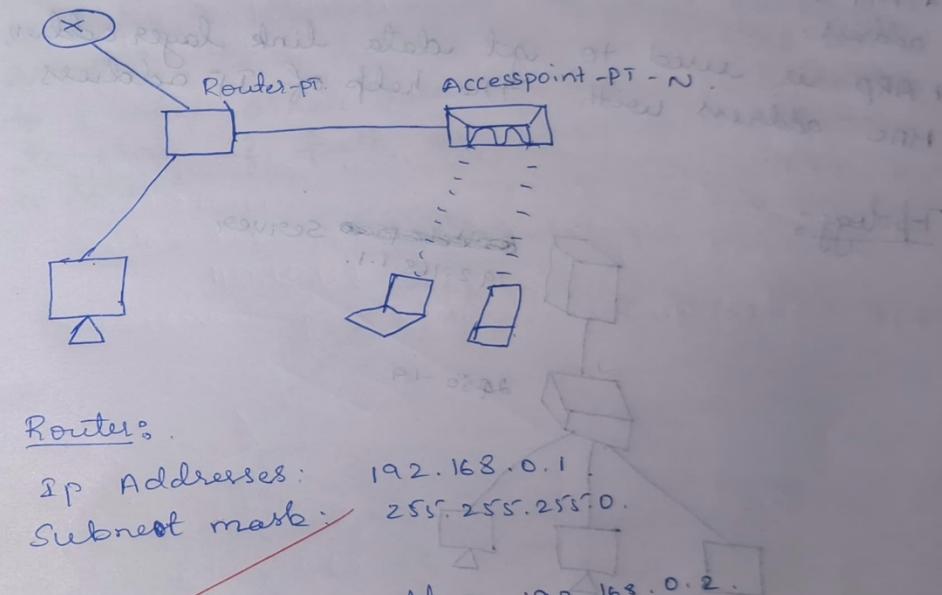
Aim : To construct simple LAN and understand the concept and operation of Address Resolution Protocol (ARP)

Observation:



OUTPUT:

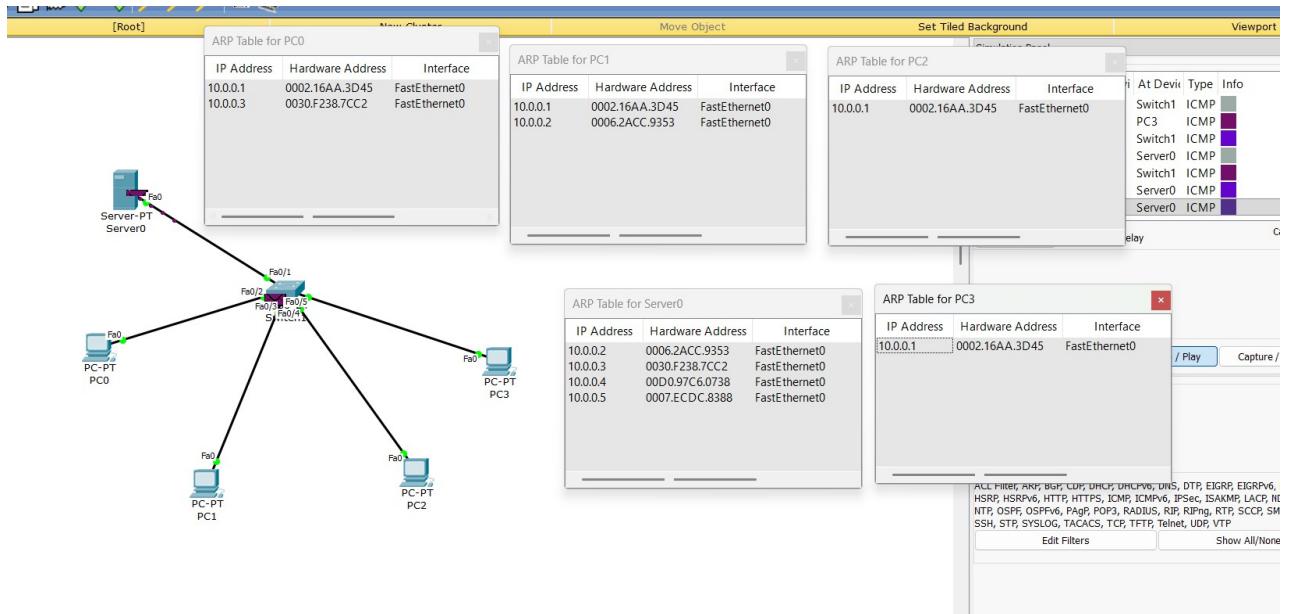
Source	Destination	Last Status
Smartphone	PCo	Successful.
Laptop	PCo	Successful.



click

2. IP address: 192.168.0.2  
Subnet mask: 255.255.255.0  
Default server: 192.168.0.1

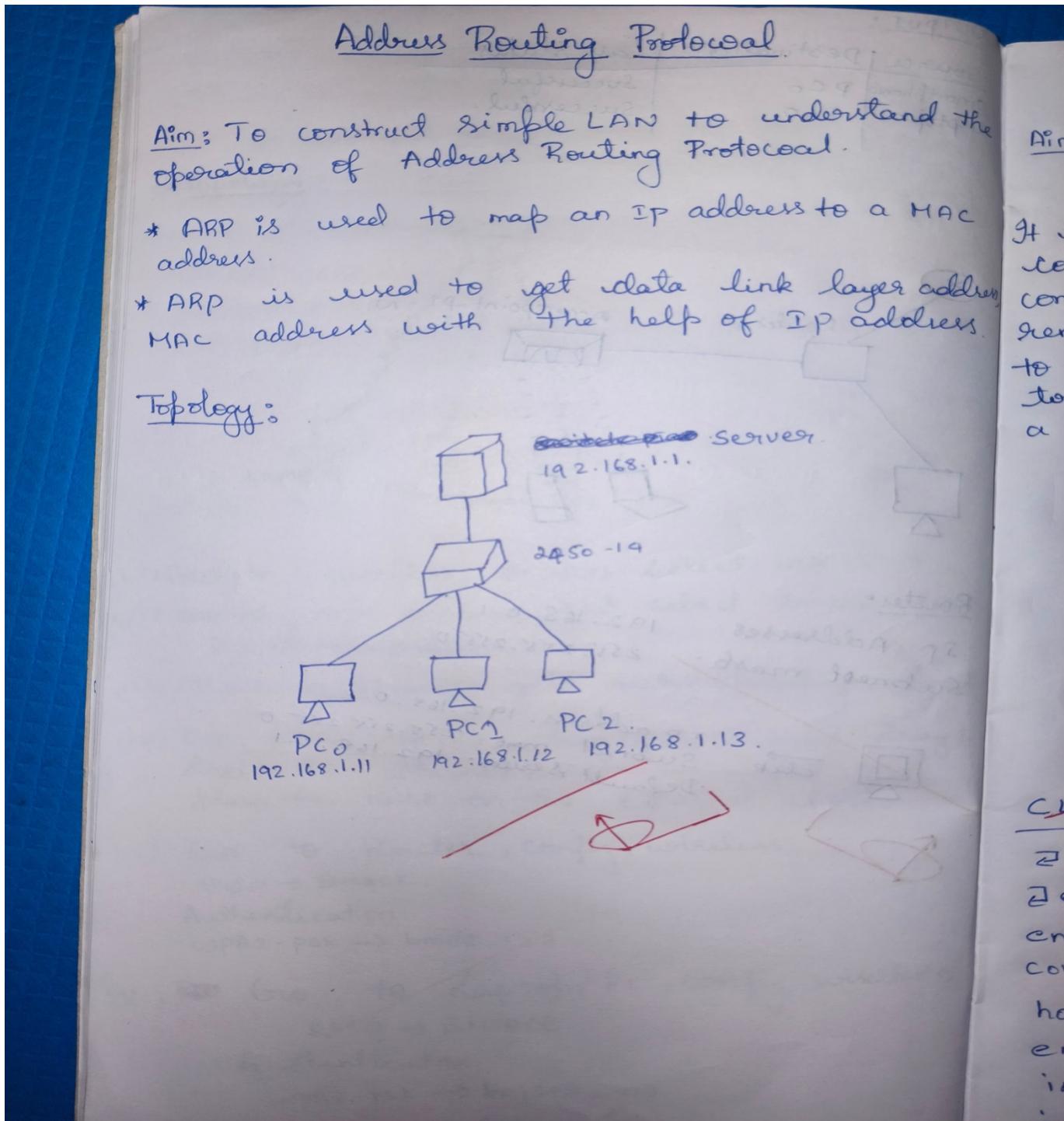
## Output:



## Program 10

Aim : To understand the operation of TELNET by accessing the router in server room from a PC in IT office.

Observation:



To cross check command : SHOW IP INTERFACE BRIEF

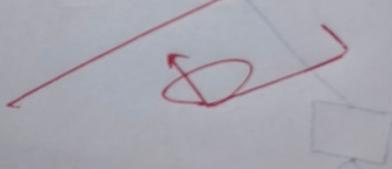
Show ip interface brief.

A

Command of PC

- \* Ping 192.168.1.1 from talk host and telnet to 192.168.1.1
- \* password : tp
- password : tp (secret)
- password : tp (secret)

R1# : Show ip interface brief.



• S 1.831.8P1/9T  
• 1.1.201.8P1/9T  
• 1.1.201.8P1/9T

Answers : 1)

• 1.1.201.8P1/9T

• 1.1.201.8P1/9T

• 1.1.201.8P1/9T

• 1.1.201.8P1/9T

• 1.1.201.8P1/9T

## Output:

```
PC>telnet 10.0.0.3  
Trying 10.0.0.3 ...  
% Connection timed out; remote host not responding
```

```
PC>telnet 10.0.0.1  
Trying 10.0.0.1 ...Open  
[Connection to 10.0.0.1 closed by foreign host]  
r1>
```

```
[Connection to 10.0.0.1 closed by foreign host]  
PC>telnet 10.0.0.1  
Trying 10.0.0.1 ...Open  
  
User Access Verification  
  
Password:  
r1>ping 10.0.0.2  
  
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 10.0.0.2, timeout is 2 seconds:  
!!!!!  
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/1  
ms  
r1>
```

## Program 11

Aim : To construct a VLAN and make the PC's communicate among a VLAN

Observation:

TELNET

Aim: To construct a topology to demonstrate telnet concept.

It is used to access remote server. It is simple command line tool that runs on your computer. It allows you to send command remotely, to a server. Telnet is also used to manage other devices like router, switch to check if path are open or closed on a server.

(Server) 90. brcwse 09  
(Server) 90. brcwse 09  
softwre of work : #CR

PC.  
IP: 192.168.1.2.  
Gateway: 192.168.1.1.

CLI commands:

Router.  
Router.  
enable.  
config +.  
hostname R1.  
enable secret RP.  
int Fa0/0.  
ip address Gateway address subnet.  
line vty 0 5.  
login.

To cross check command ~~of R1~~

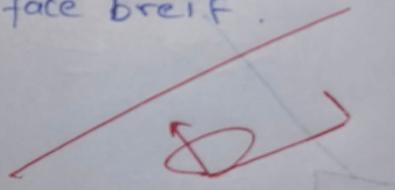
Show ip interface brief.

A

Command of PC

- \* Ping 192.168.1.1 from tall host and learning telnet to 192.168.1.1
- \* password:tp : tel password is set at platon
- \* password:tp : ref was that fl back is saved
- Ri >en.
- password :tp (secret).
- Password :tp (secret).

R1# ? Show ip interface brief.



• S 1.8 31. SPI/IGI  
• 1.1.2 31. SPI forward

• Normal 32

• ports 5

• ports 6

• ports 7

• ports 8

• ports 9-10 smart port

Output:

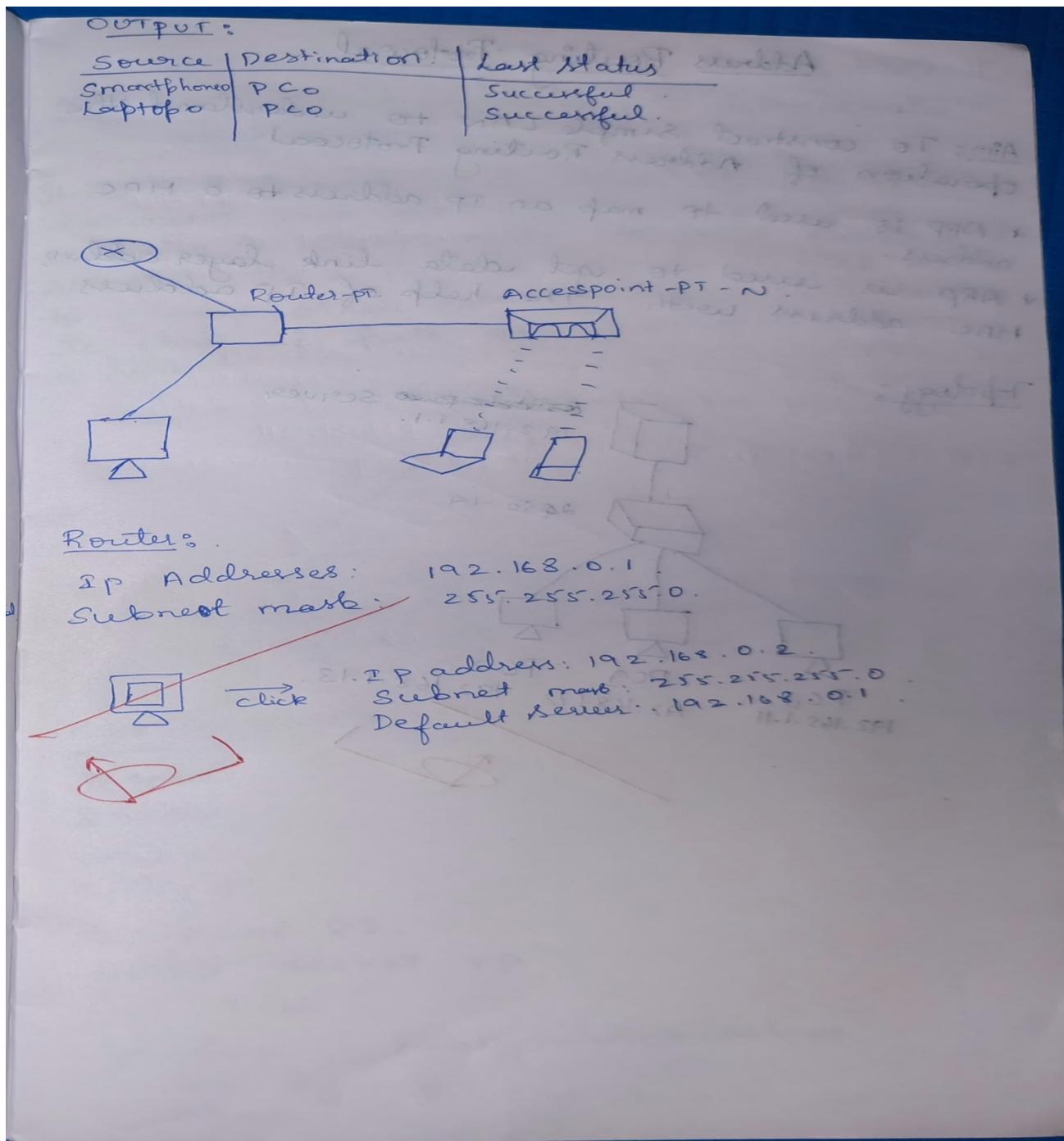
Packet Tracer PC Command Line 1.0  
PC>ping 192.168.1.2  
  
Pinging 192.168.1.2 with 32 bytes of data:  
  
Request timed out.  
Reply from 192.168.1.2: bytes=32 time=7ms TTL=127  
Reply from 192.168.1.2: bytes=32 time=1ms TTL=127  
Reply from 192.168.1.2: bytes=32 time=2ms TTL=127  
  
Ping statistics for 192.168.1.2:  
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 1ms, Maximum = 7ms, Average = 3ms  
  
PC>

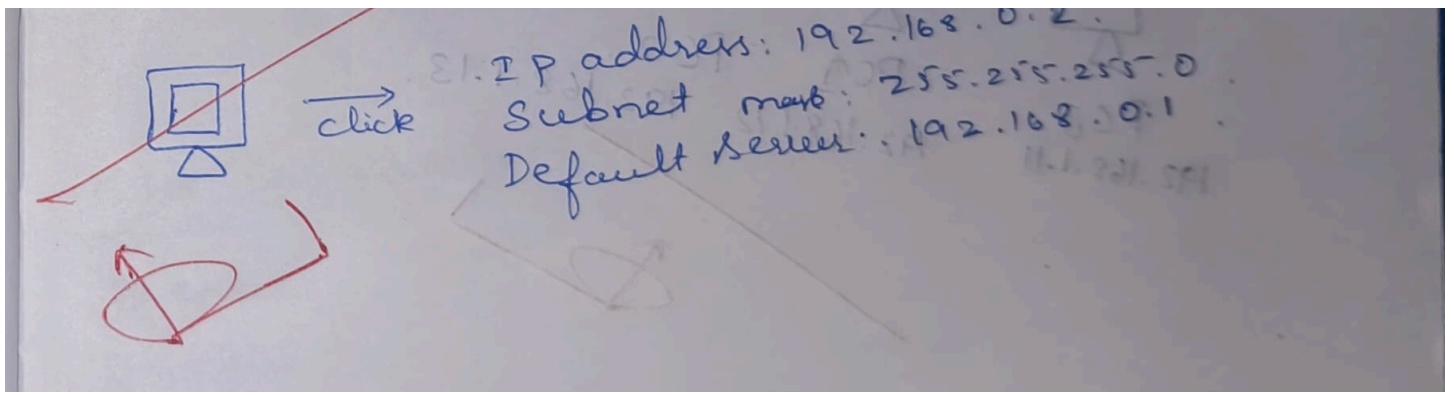
PC1 Physical Config Desktop Custom Interface  
  
Command Prompt X  
  
Packet Tracer PC Command Line 1.0  
PC>ping 192.168.20.2  
  
Pinging 192.168.20.2 with 32 bytes of data:  
  
Request timed out.  
Reply from 192.168.20.2: bytes=32 time=0ms TTL=127  
Reply from 192.168.20.2: bytes=32 time=0ms TTL=127  
Reply from 192.168.20.2: bytes=32 time=1ms TTL=127  
  
Ping statistics for 192.168.20.2:  
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 0ms, Maximum = 1ms, Average = 0ms  
  
PC>

## Program 12

Aim : To construct a WLAN and make the nodes communicate wirelessly

Observation:





## Output:

```
Command Prompt
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:

Reply from 10.0.0.4: bytes=32 time=22ms TTL=128
Reply from 10.0.0.4: bytes=32 time=7ms TTL=128
Reply from 10.0.0.4: bytes=32 time=9ms TTL=128
Reply from 10.0.0.4: bytes=32 time=6ms TTL=128

Ping statistics for 10.0.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 6ms, Maximum = 22ms, Average = 11ms

PC>ping 10.0.0.5

Pinging 10.0.0.5 with 32 bytes of data:

Reply from 10.0.0.5: bytes=32 time=22ms TTL=128
Reply from 10.0.0.5: bytes=32 time=7ms TTL=128
Reply from 10.0.0.5: bytes=32 time=13ms TTL=128
Reply from 10.0.0.5: bytes=32 time=6ms TTL=128
```

### Program 13

Aim : Write a program for error detecting code using CRC-CCITT (16-bits).

Observation:

Write a program to control congestion via  
leaky bucket algorithm detect error using  
CRC.

CRC is more powerful & easy to implement.

CRC is based on binary division

Calculate the remainder, if remainder=0 in  
destination  $\Rightarrow$  Error free  
data.

Prob:- 11001  $\rightarrow$  Polynomial Generator ( $G_7$ ) = 101.

i) compute CRC at the sender side.

$$\begin{array}{r} 111 \\ \hline 101 | 11001 \\ 101 | \quad \quad \quad \\ 0110 | \\ 101 | \quad \quad \quad \text{data} \\ 00111 | \\ 101 | \quad \quad \quad \\ 00010 | \\ 101 | \quad \quad \quad \\ 00000 \end{array}$$

$$\text{CRC} = 10.$$

$$\begin{array}{r} 1111 \\ \hline 101 | 1100110 \\ 101 | \quad \quad \quad \\ 0110 | \\ 101 | \quad \quad \quad \\ 00111 | \\ 101 | \quad \quad \quad \\ 000101 | \\ 101 | \quad \quad \quad \\ 00000 \end{array}$$

Code:

```
#include <stdio.h>
#include <string.h>

void computeCRC(char data[], char poly[], char remainder[])
{
    char temp[200];
    int dataLen = strlen(data);
    int polyLen = strlen(poly);

    strcpy(temp, data);

    // Append (polyLen - 1) zeros to data
    for (int i = 1; i < polyLen; i++)
        strcat(temp, "0");

    printf("\nData padded (message + zeros): %s\n", temp);

    // Perform binary division
    for (int i = 0; i <= strlen(temp) - polyLen; i++)
    {
        if (temp[i] == '1')
        {
            for (int j = 0; j < polyLen; j++)
                temp[i + j] = (temp[i + j] == poly[j]) ? '0' : '1';
        }
    }

    // CRC = last (polyLen-1) bits
    strcpy(remainder, temp + (strlen(temp) - (polyLen - 1)));
}

int checkReceived(char received[], char poly[])
{
    char temp[200];
```

```

int polyLen = strlen(poly);

strcpy(temp, received);

// Perform division on received message
for (int i = 0; i <= strlen(temp) - polyLen; i++)
{
    if (temp[i] == '1')
    {
        for (int j = 0; j < polyLen; j++)
            temp[i + j] = (temp[i + j] == poly[j]) ? '0' : '1';
    }
}

// Check any '1' in remainder portion
for (int i = strlen(temp) - (polyLen - 1); i < strlen(temp); i++)
    if (temp[i] == '1')
        return 0; // Error detected

return 1; // No error
}

int main()
{
    char message[100], poly[30], crc[30], transmitted[150], received[150];

    printf("Enter the message bits      : ");
    scanf("%s", message);

    printf("Enter the polynomial (g(x)) : ");
    scanf("%s", poly);

    computeCRC(message, poly, crc);

    printf("CRC value (remainder)      : %s\n", crc);
}

```

```

// Form transmitted message
strcpy(transmitted, message);
strcat(transmitted, crc);

printf("Message to be transmitted : %s\n", transmitted);

// Receiver side
printf("\nEnter received message bits (can modify 1 bit to test error): ");
scanf("%s", received);

if (checkReceived(received, poly))
    printf("\n■ No Error: Message received correctly.\n");
else
    printf("\n+ ERROR detected in received message!\n");

return 0;
}

```

Output:

Enter the message bits 101101

Enter the polynomial (g(x)) : 1101

Data padded (message + zeros): 101101000

CRC value (remainder) 101

Message to be transmitted 101101101

Enter received message bits (can modify 1 bit to test error): 101101101

■ No Error: Message received correctly.

## Output:

OUTPUTS

Enter the generation:

101.

Generator polynomial is CRC: CCITT: 101.

Enter the message:

110101.

message polynomial appended with zero.

11010100.

the checksum appended.

11

the message with checksum appended

11010111.

enter the received message:

11010111.

received polynomial is errorfree.

