

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum -590014, Karnataka.



LAB RECORD

Computer Network Lab (23CS5PCCON)

Submitted by

Eashan Jain V (1BM23CS098)

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 **Eashan Jain V(1BM23CS098)**, 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.

Sarala D V Assistant Professor Department of CSE, BMSCE	Dr. Kavitha Sooda Professor & HOD Department of CSE, BMSCE
---	--

Index

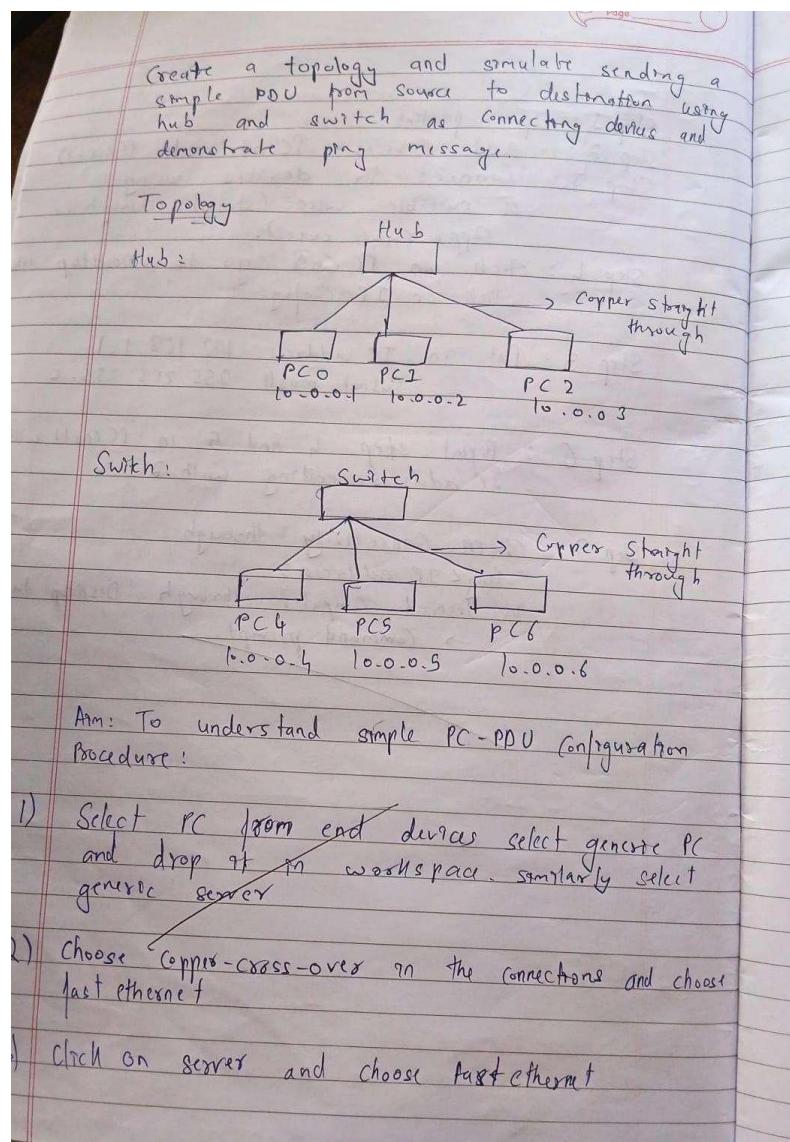
Sl. No.	Date	Experiment Title	Page No.
1	19/08/2025	Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate ping message.	1
2	03/09/2025	Configure IP address to routers in packet tracer. Explore the following messages: ping responses, destination unreachable, request timed out, reply	4
3	10/09/2025	Configure default route, static route to the Router	8
4	9/09/2025	Configure DHCP within a LAN and outside LAN.	11
5	23/10/2025	Configure RIP routing Protocol in Routers	14
6	14/10/2025	Configure OSPF routing protocol	17
7	11/11/2025	Demonstrate the TTL/ Life of a Packet	21
8	9/9/2025	Configure Web Server, DNS within a LAN.	23
9	18/11/2025	To construct simple LAN and understand the concept and operation of Address Resolution Protocol (ARP)	25
10	18/11/2025	To understand the operation of TELNET by accessing the router in server room from a PC in IT office.	28
11	14/10/2025	To construct a VLAN and make the PC's communicate among a VLAN	31
12	11/11/2025	To construct a WLAN and make the nodes communicate wirelessly	34
13	28/10/2025	Write a program for error detecting code using CRC-CCITT (16-bits).	37
14	28/10/2025	Write a program for congestion control using Leaky bucket algorithm.	42
15	17/11/2025	Using TCP/IP sockets, write a client-server program to make client sending the file name and the server to send back the contents of the requested file if present.	45
16	17/11/2025	Using UDP sockets, write a client-server program to make client sending the file name and the server to send back the contents of the requested file if present.	47

Github Link : github.com/navirath/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:



- 4) Click on PC and go to config tab. Set IP address to 10.0.0.1 and click on subnetMask
- 5) Repeat same step and set IP address for server
- 6) In simulation mode in edit filters click only ICMP
- 7) Add simple PDU from PC to server
- 8) Click on autocapture/play

Hub -

Procedure -

- 1) Select the end devices and change their IP addresses suitably
- 2) Select hub as the connecting device
- 3) Select copper straight through as the connecting wire between end devices and hub
- 4) Connect the fastethernet to hub ports
- 5) Select the message and first click on source device and destination device
- 6) Observe the packet transmission and acknowledgement receiving procedure.

Switch

Procedure -

- 1) Select the end devices and change their IP addresses suitably
- 2) Select switch as the connecting device
- 3) Select copper straight through as the connecting wire between end devices and hub.
- 4) Connect fastethernet to hub ports
- 5) Select the msg and first click on source device and then the destination device
- 6) Observe the packet transmission and acknowledgement receiving procedure.

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

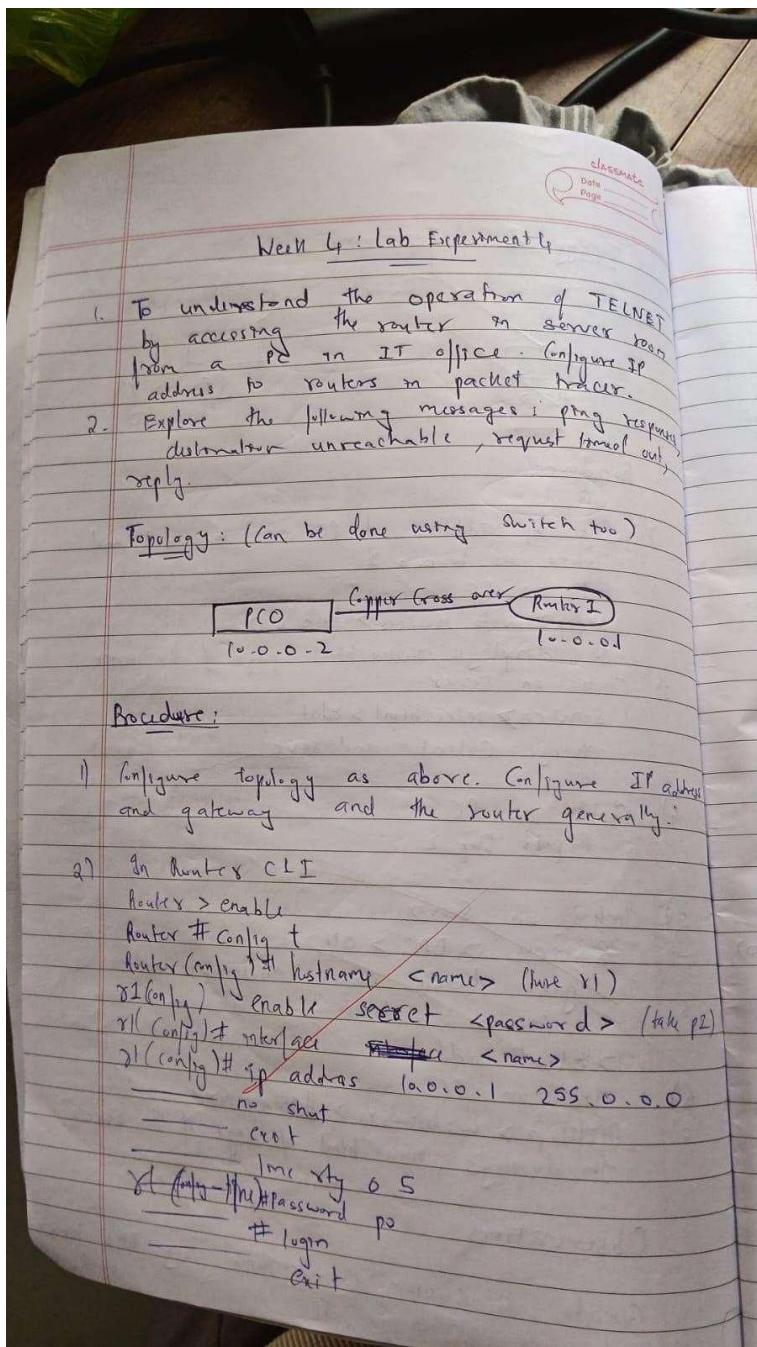
Ping statistics for 10.0.0.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

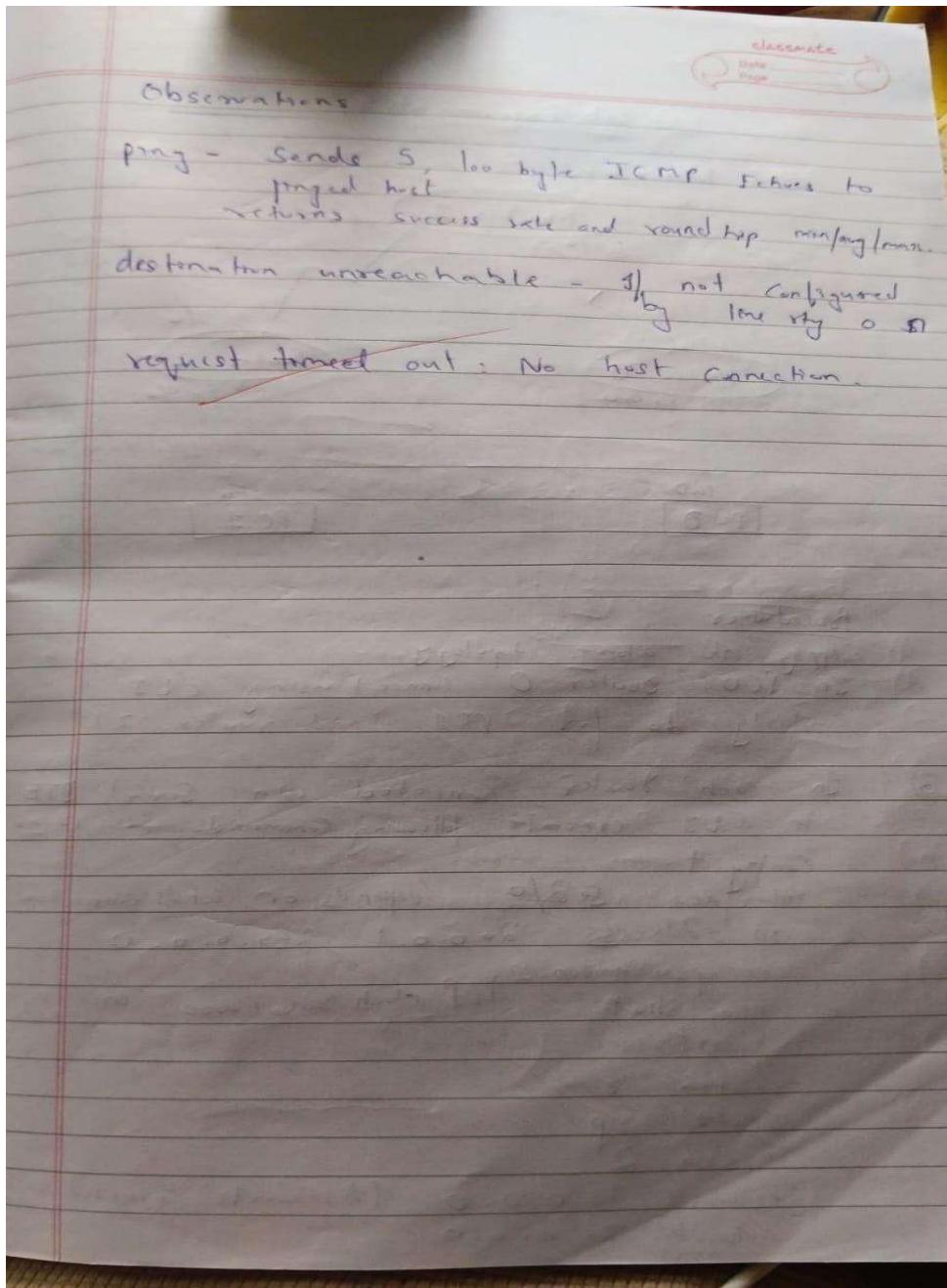
PC>
```

Program 2

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

Observation:





Output:

Command Prompt

```
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.

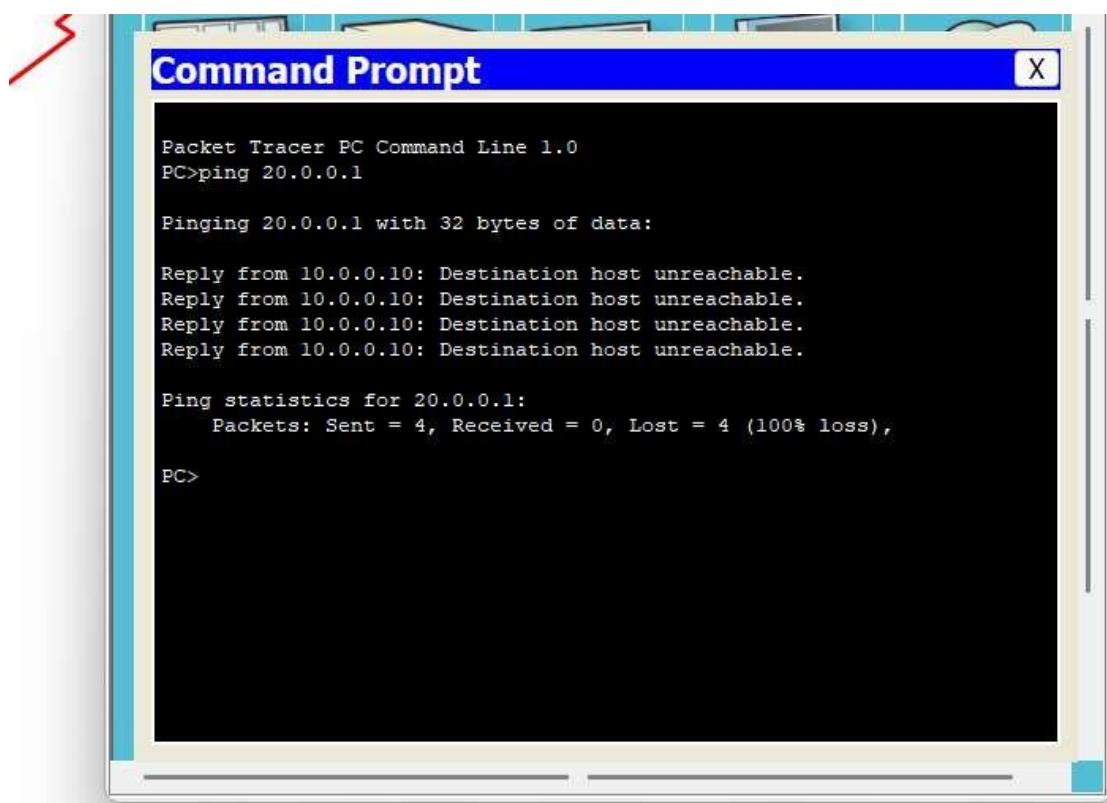
Ping statistics for 10.0.0.1:
  Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>
```

```
[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

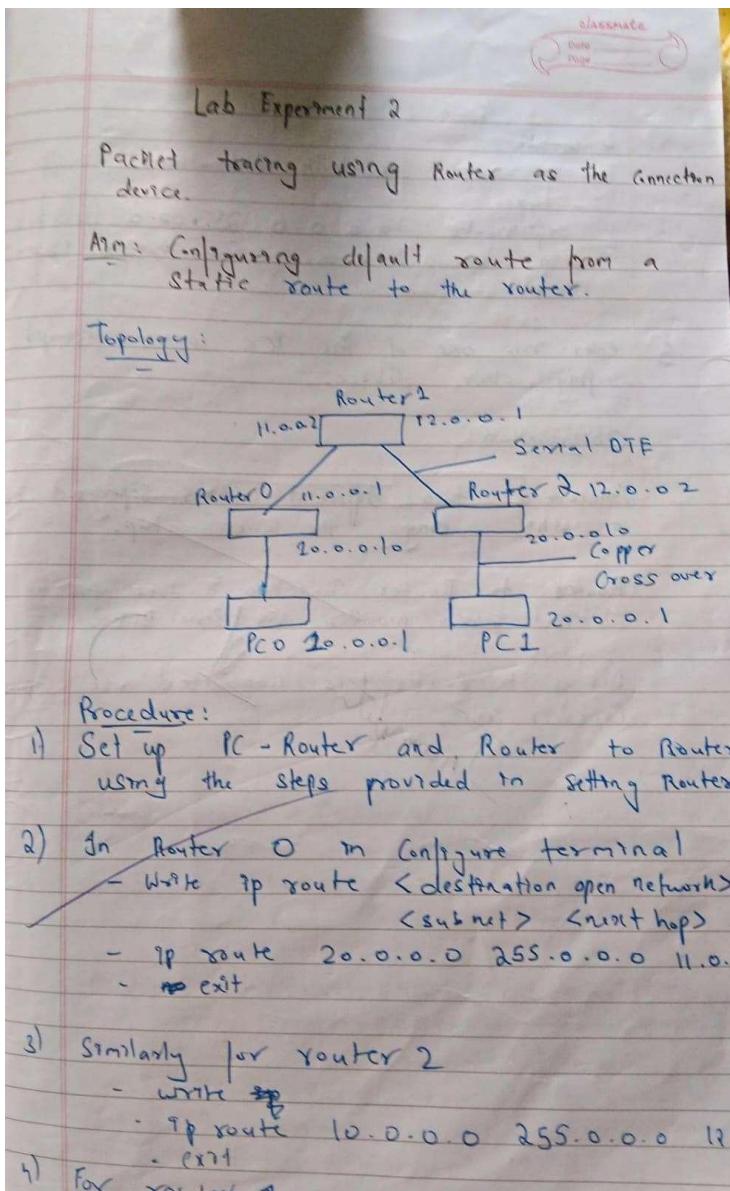
Ping statistics for 10.0.0.1:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 3ms, Average = 0ms
PC>
```

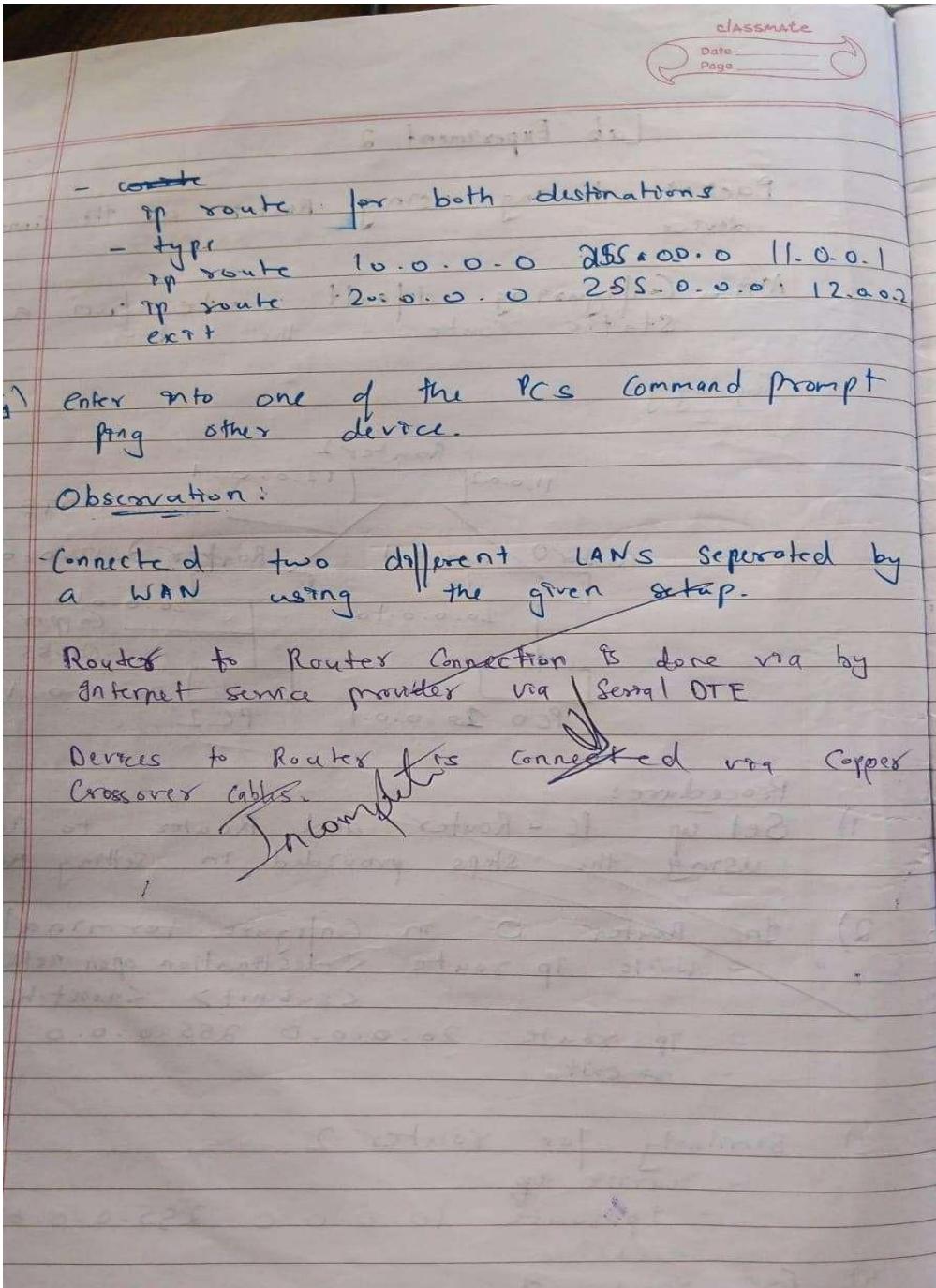


Program 3

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

Observation:





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

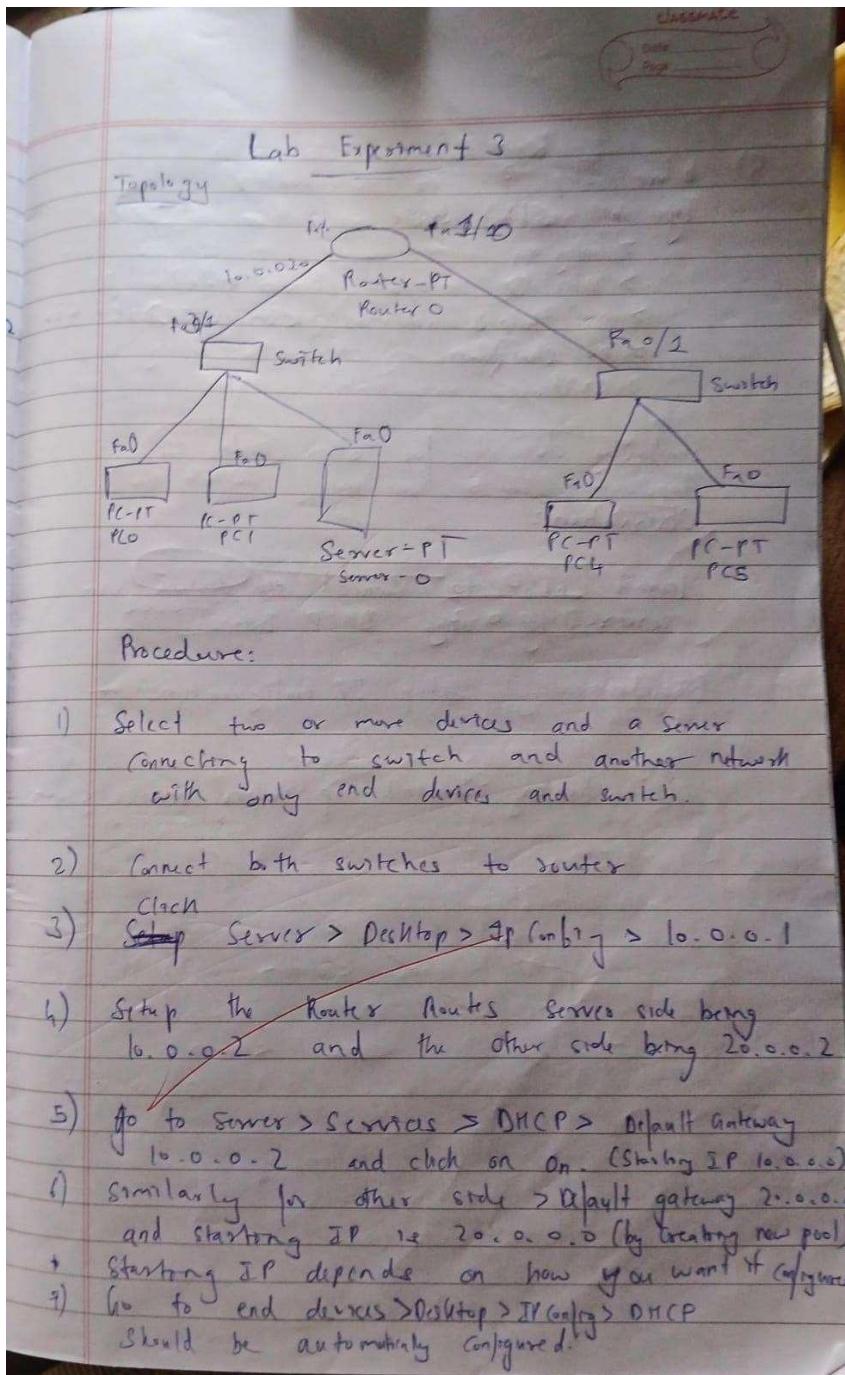
Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 27ms, Average = 13ms

PC>
```

Program 4

Aim : Configure DHCP within a LAN and outside LAN.

Observation:



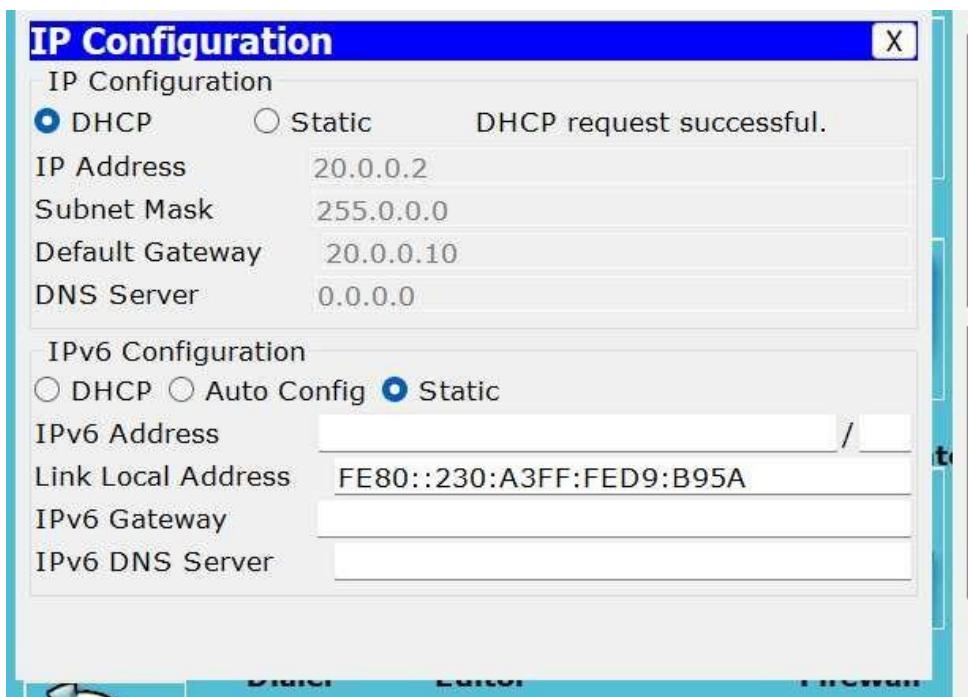
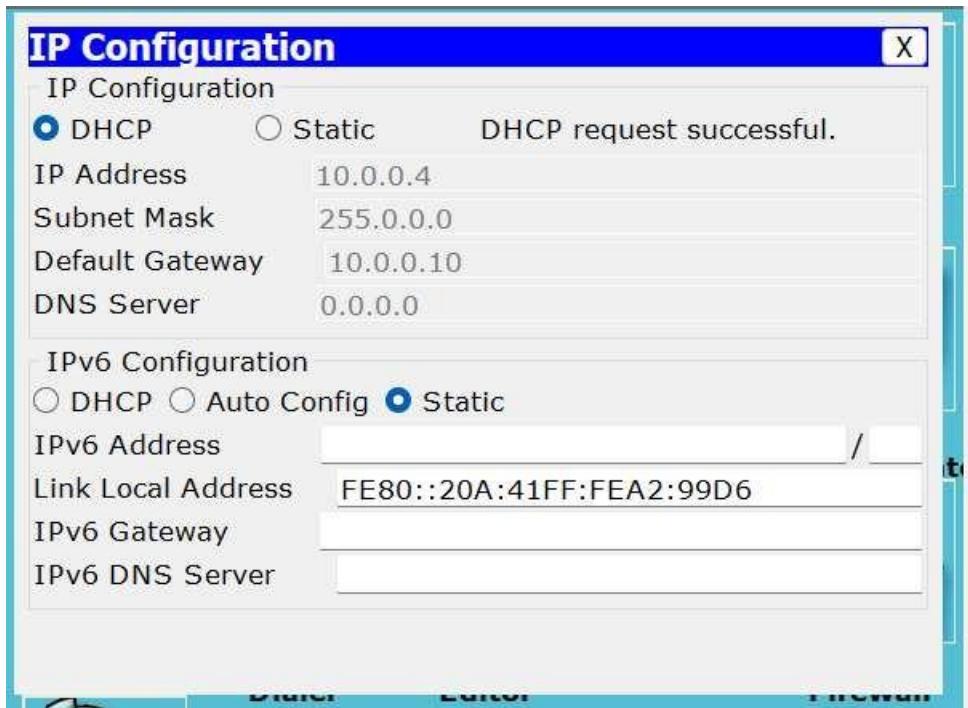
- 8) before step 7 go to router
go to config write
> ~~enable~~
> config +
> interface Fa 0/0 (server side)
> ip helper-address <server IP> (here 192.168.1)
> no shutdown
> exit.

Similarly do it for other side.

Observation:

- learnt how to connect end devices via server by using DHCP Protocol.
- Dynamically setup IP configurations for end devices
- New Router Command ip helper address <server IP>

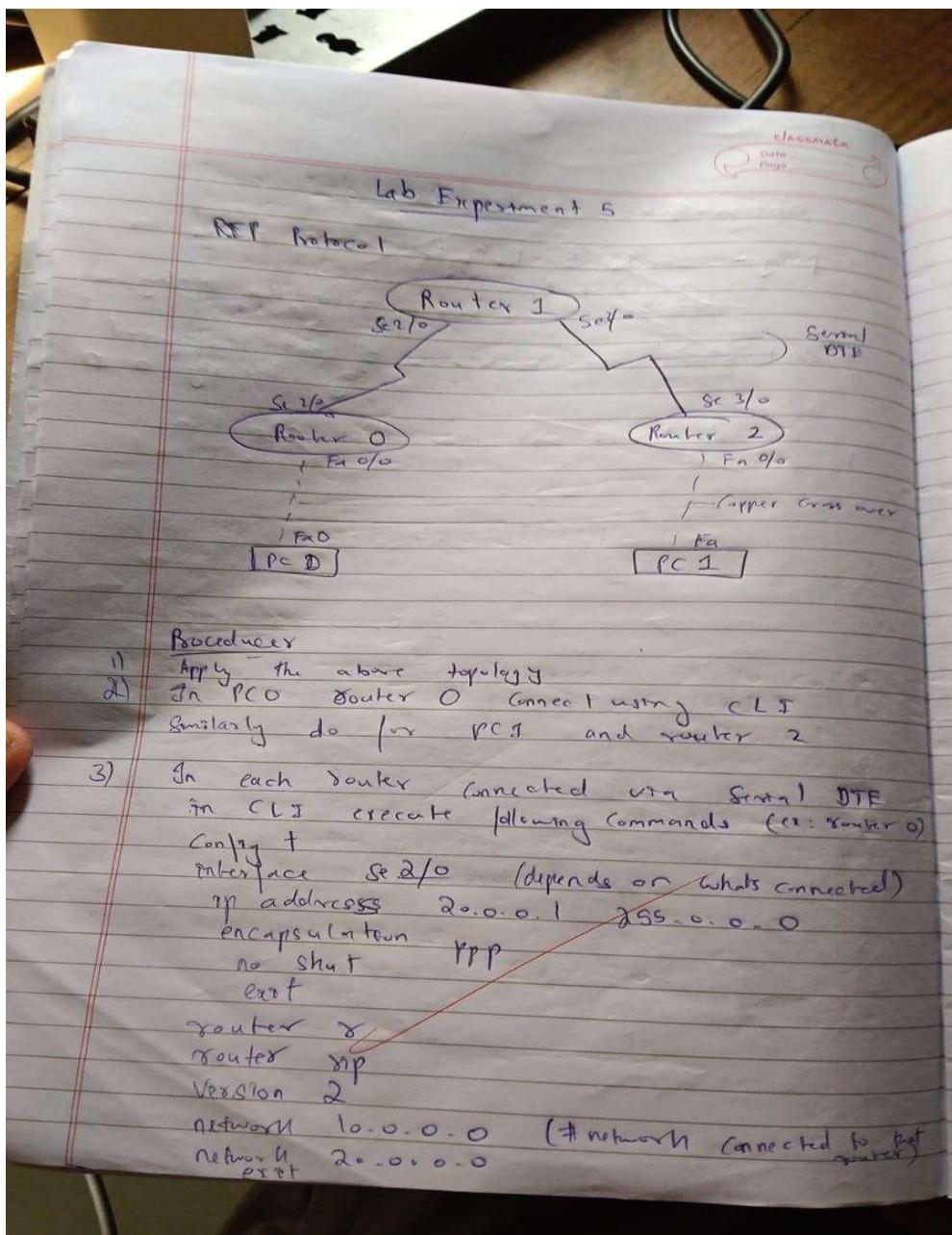
Output:

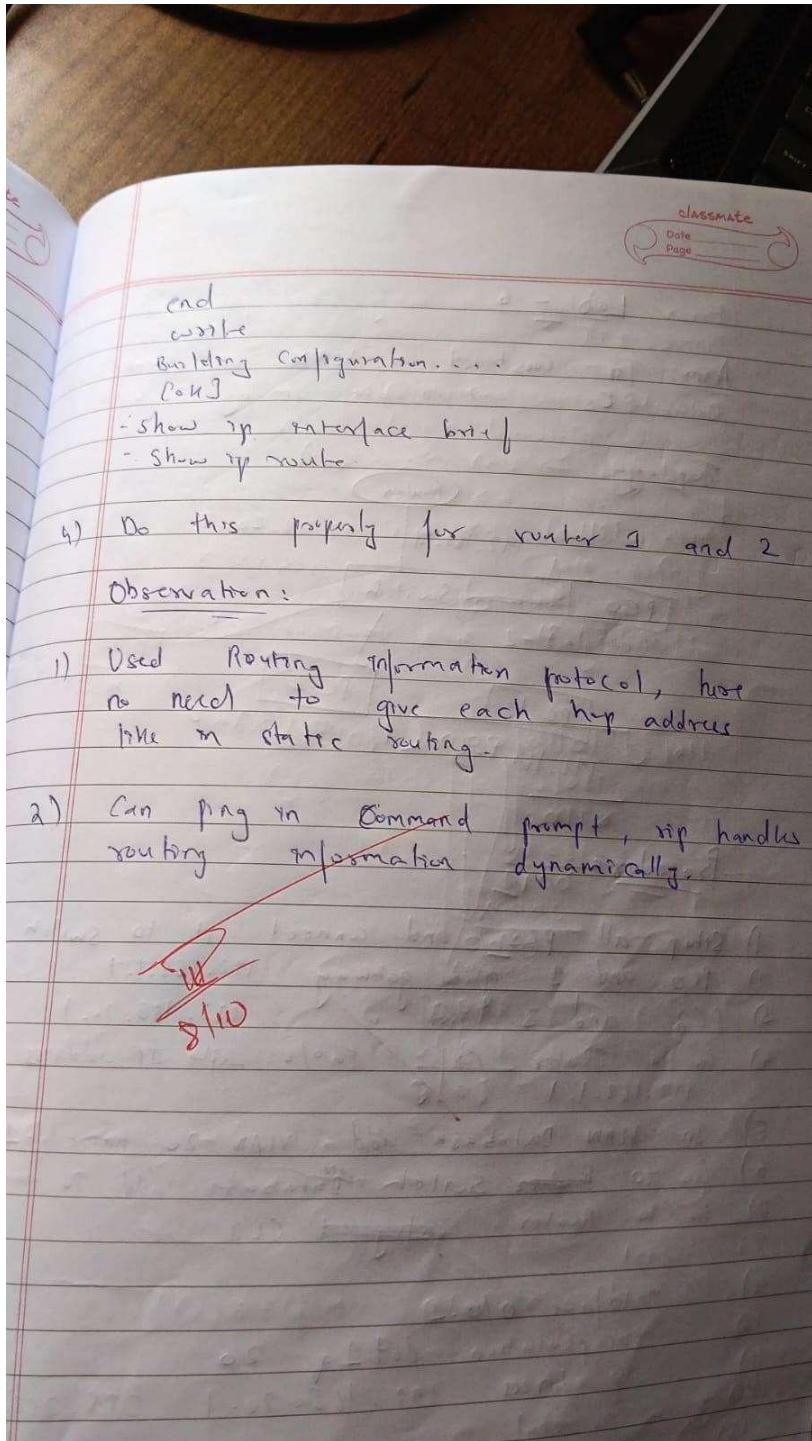


Program 5

Aim : Configure RIP routing Protocol in Routers

Observations :





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.

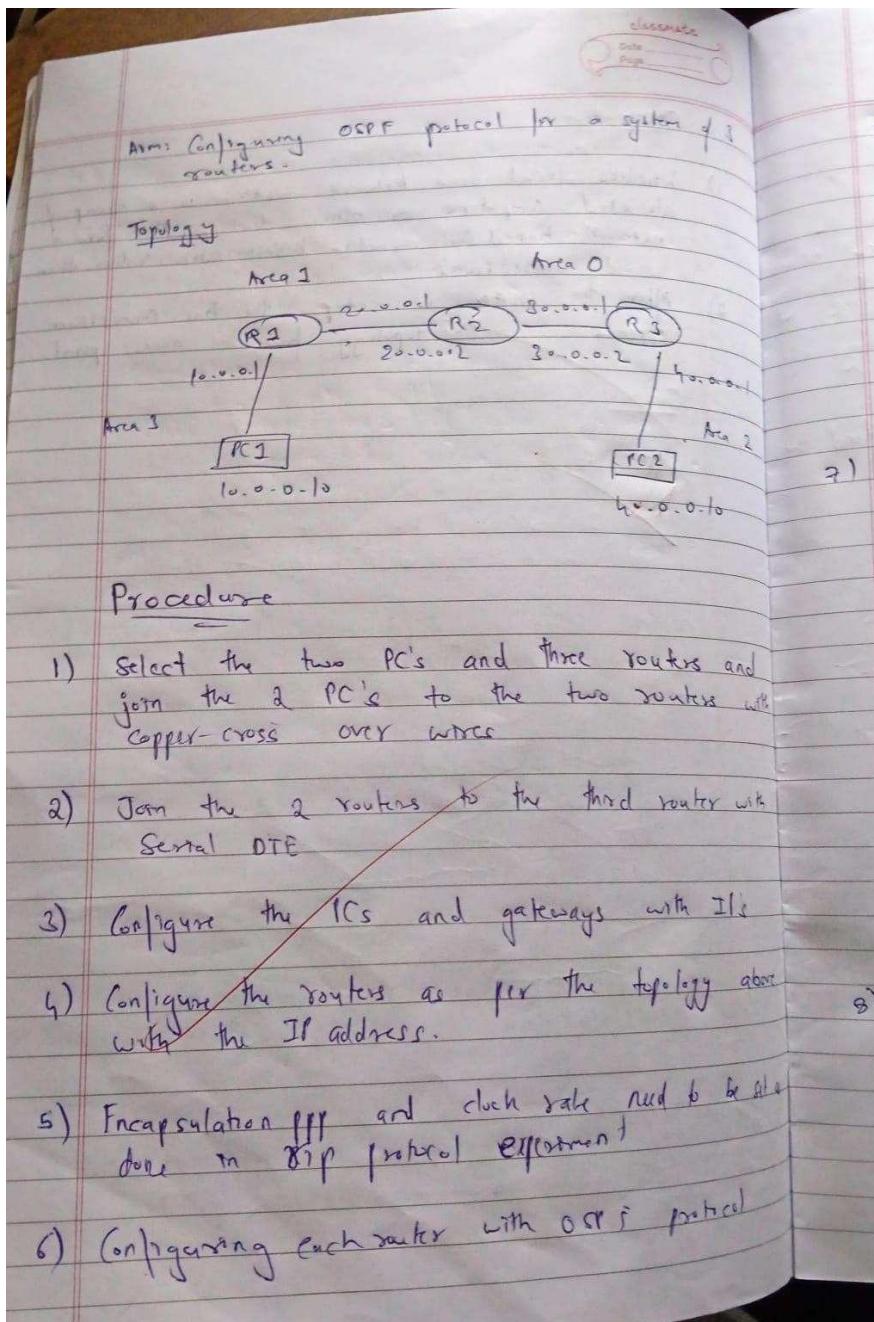
Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Request timed out.
Reply from 20.0.0.1: bytes=32 time=8ms TTL=125
Reply from 20.0.0.1: bytes=32 time=10ms TTL=125
Reply from 20.0.0.1: bytes=32 time=7ms TTL=125

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:



For router 1

Config

router ospf 1

router-id 1.1.1.1

network 10.0.0.0 0.255.255.255 area 3

network 20.0.0.0 0.255.255.255 area 1

Similarly do for other routers with id 2 & 3

7) Configure the interface

(conf-if)
R0# interface loopback 0

ip address 192.16.1.252 255.255.0.0
no shutdown

R1 interface loopback 0

253

R2

254

show ip route

8) Configure virtual link

R0 (config)# router ospf 1

area 2 virtual-link 2.2.2.2

ctrl

R1 (config)

area 1

1.1.1.1

exit

Q) Show ip route configured in all routers

• Troubleshooting

show ip protocols

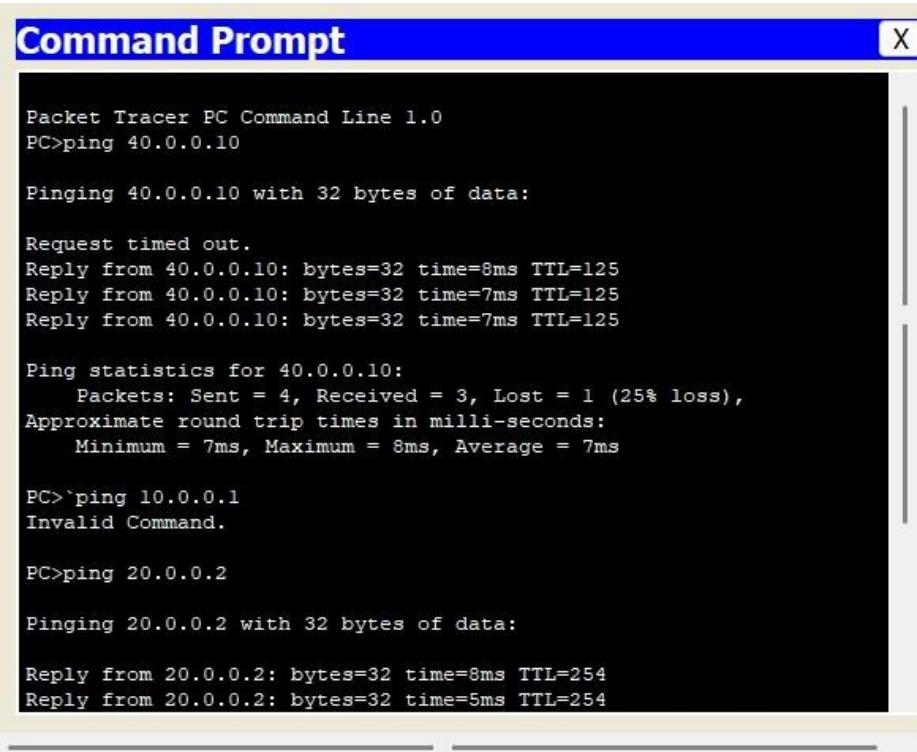
show ip ospf interface

Observation

(open shortest path first)

OSPF protocol uses Dijkstra's algorithm to find the shortest path to reach the destination.

Output:



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

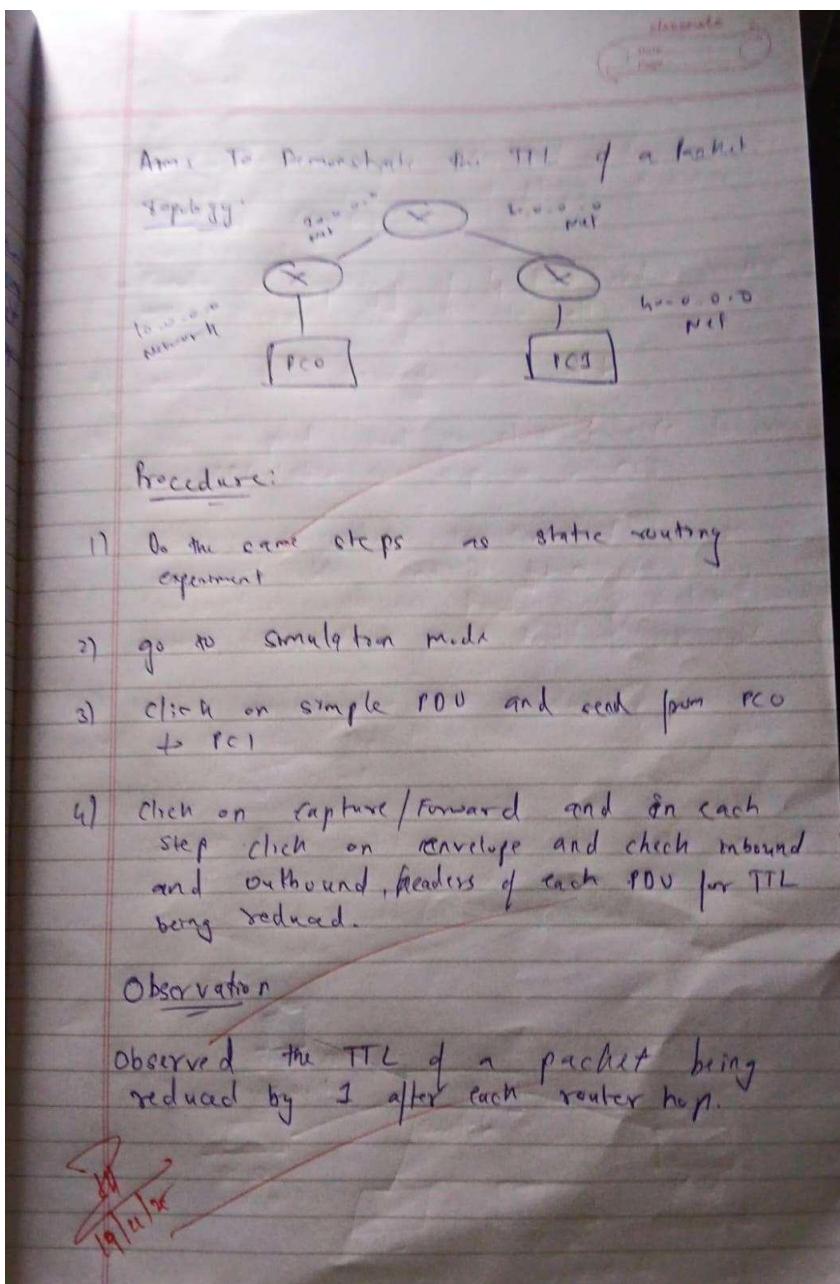
Pinging 20.0.0.2 with 32 bytes of data:

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

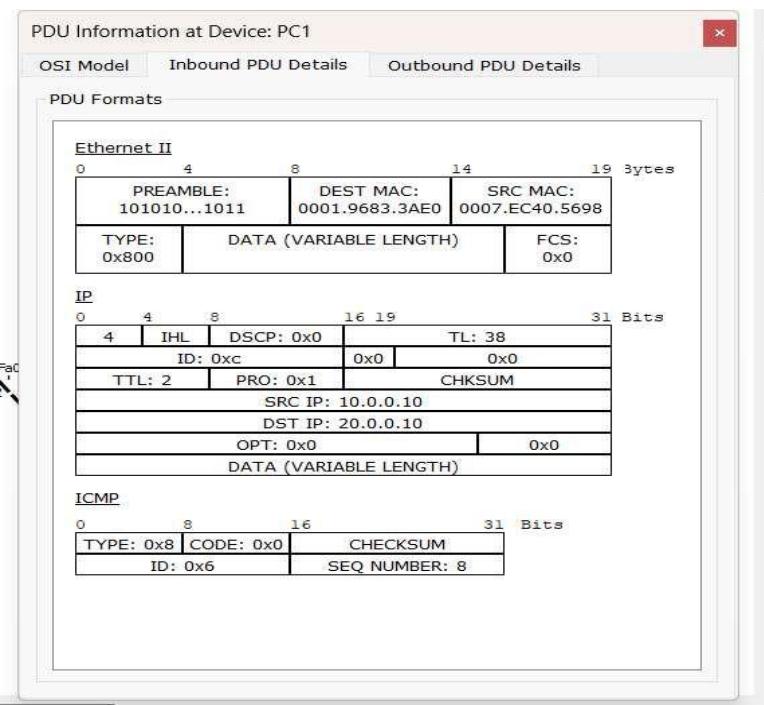
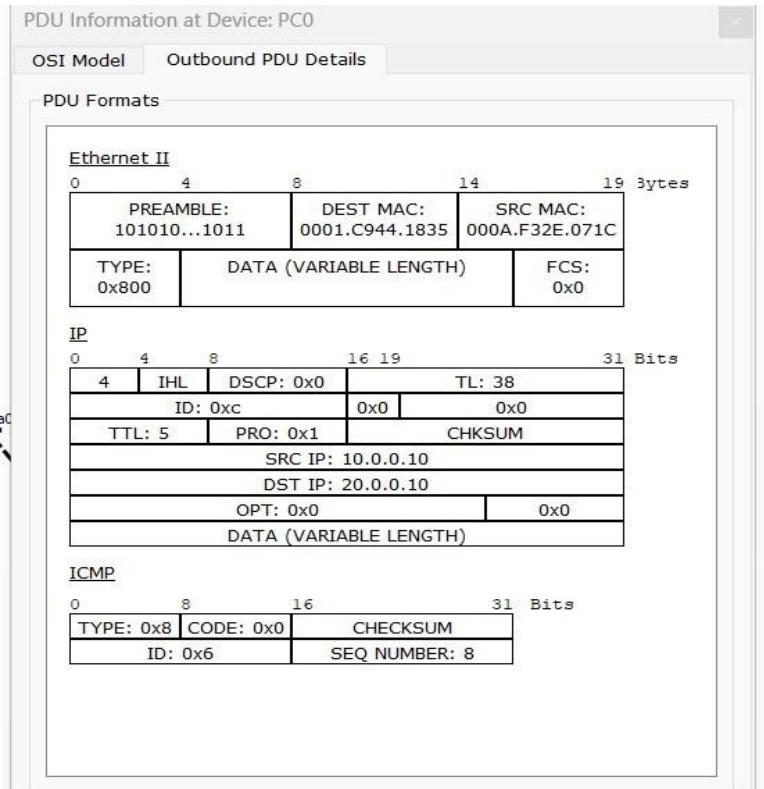
Program 7

Aim : Demonstrate the TTL/ Life of a Packet

Observations:



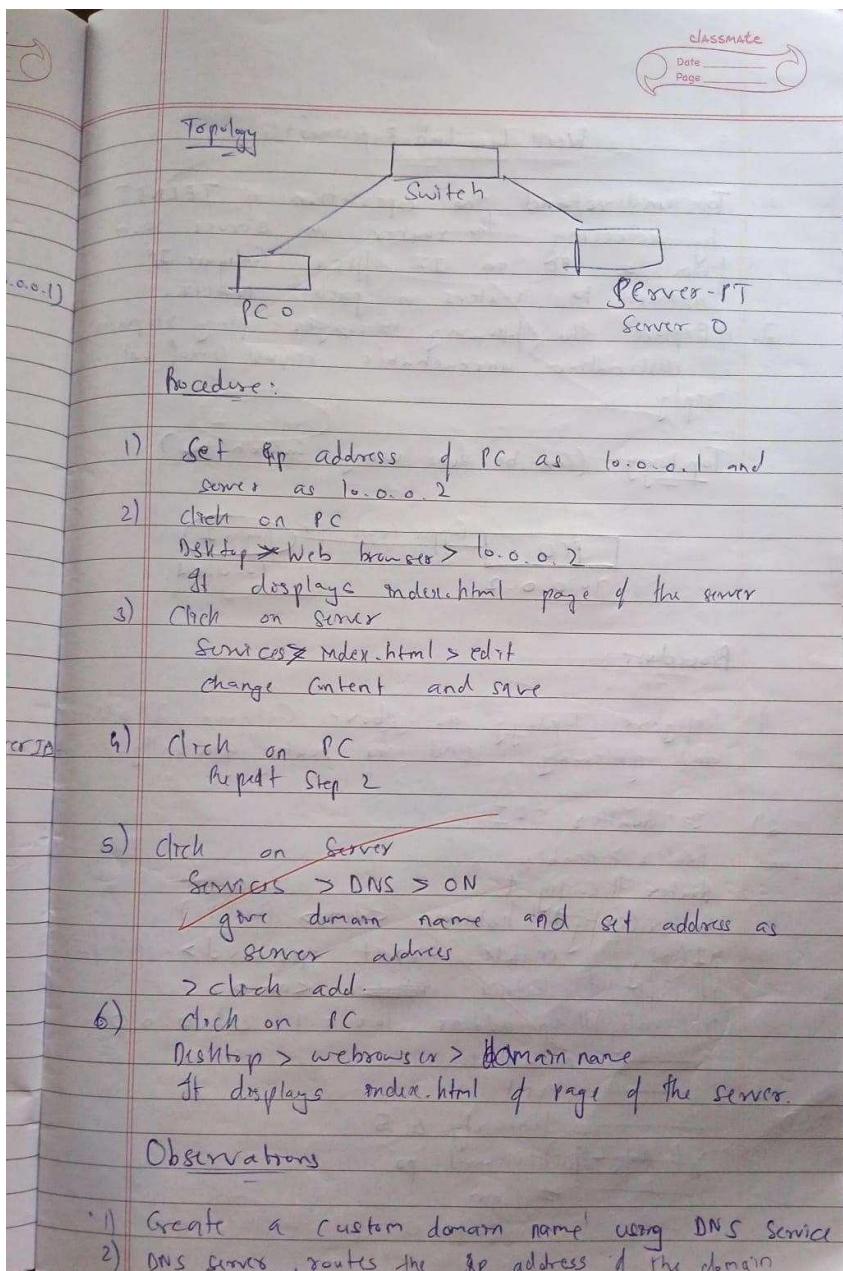
Output:



Program 8

Aim : Configure Web Server, DNS within a LAN.

Observation:



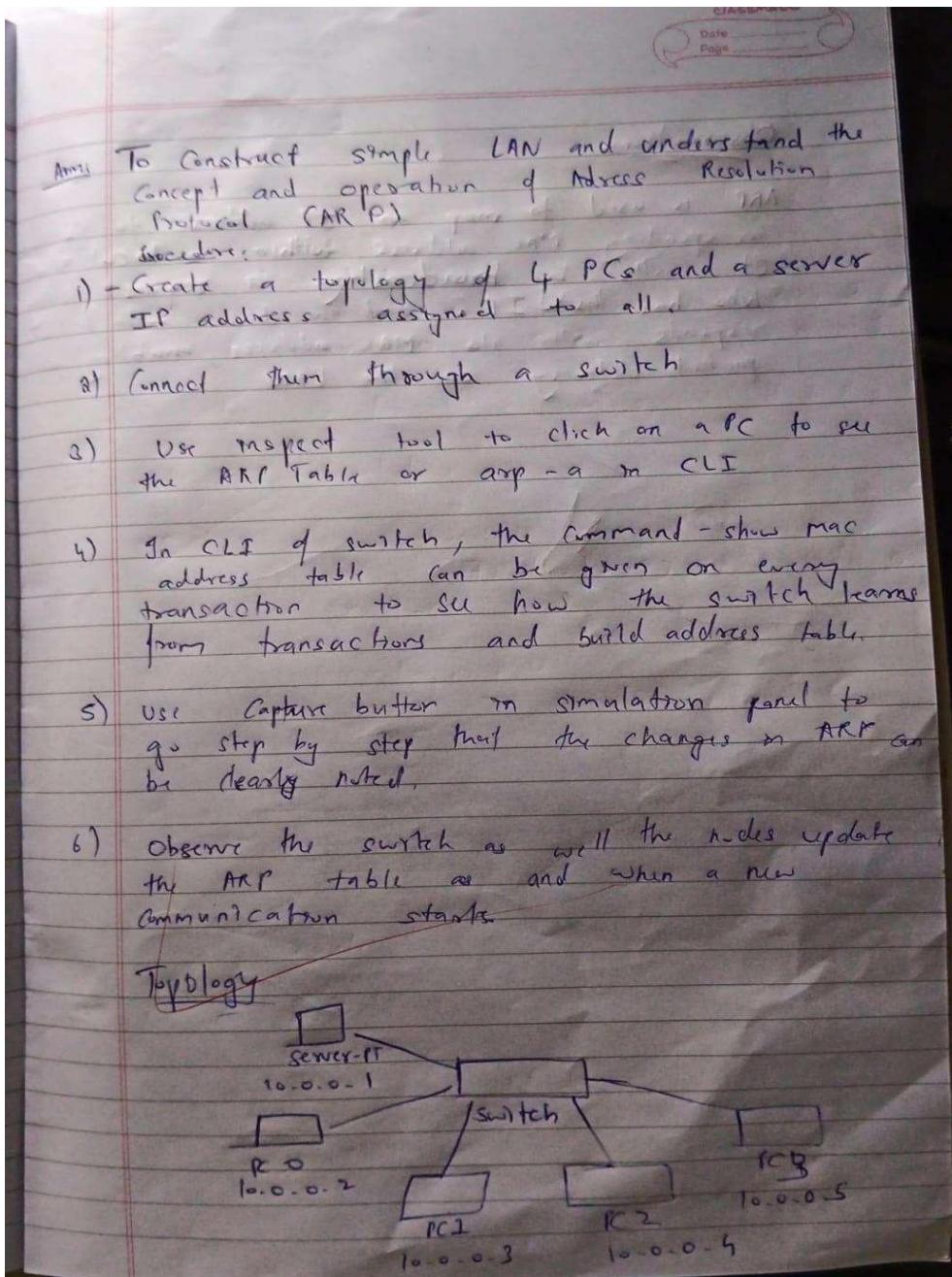
Output:

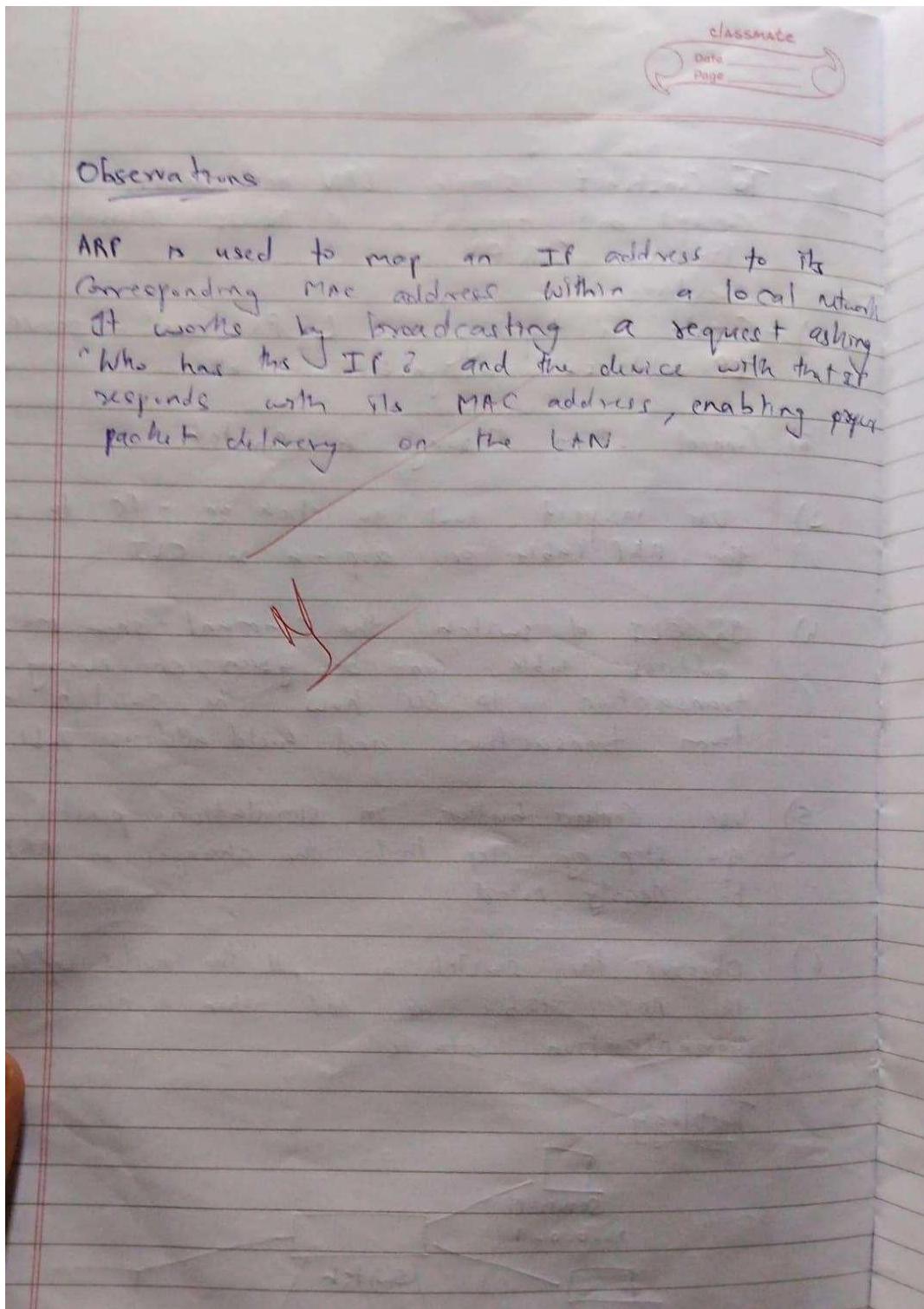


Program 9

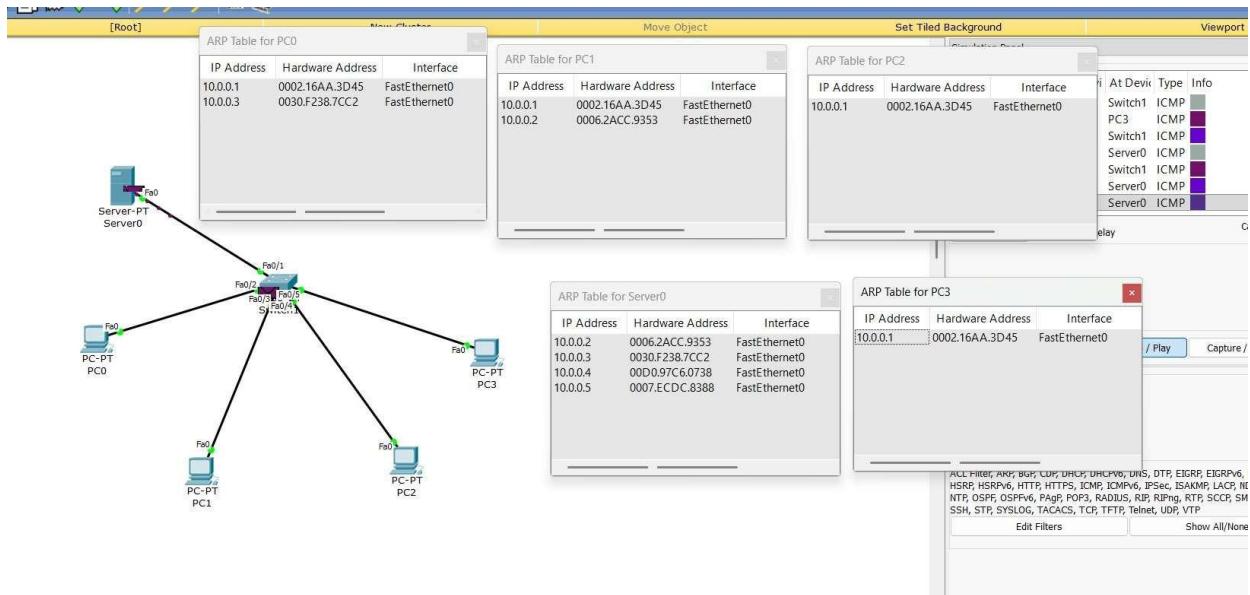
Aim : To construct simple LAN and understand the concept and operation of Address Resolution Protocol (ARP)

Observation:





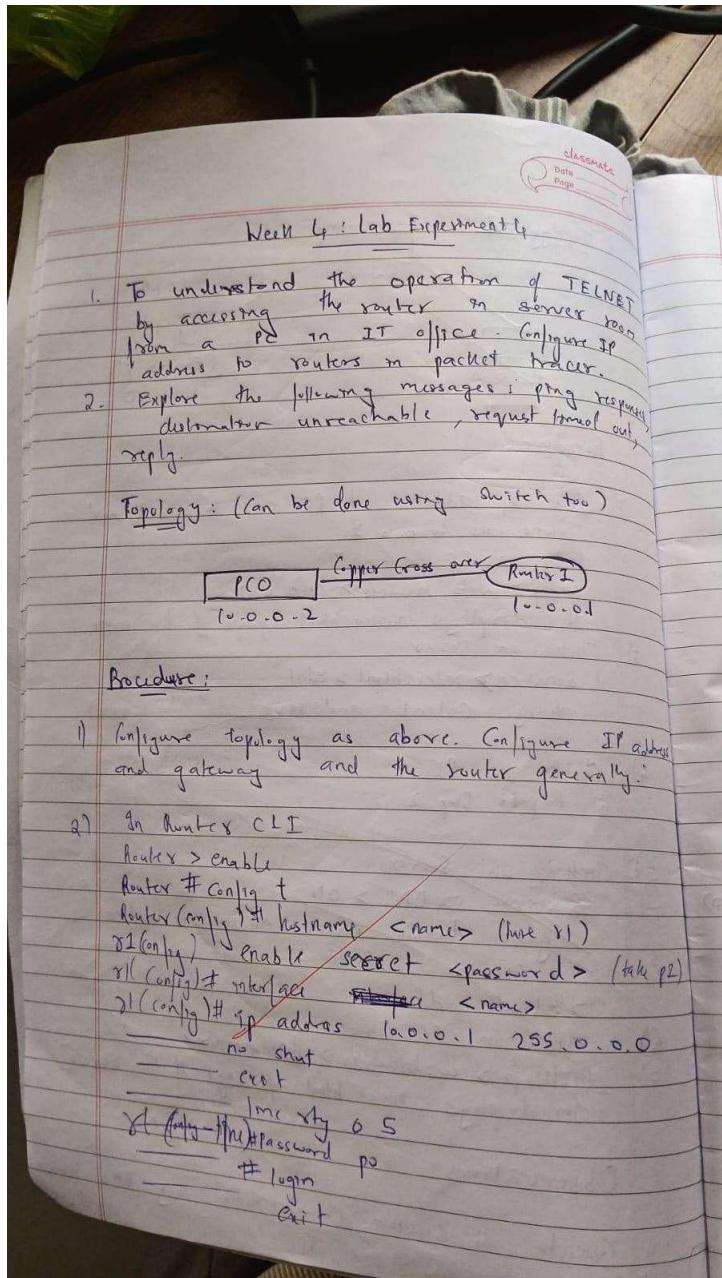
Output:



Program 10

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

Observation:



Observations

classmate

Date _____

Page _____

ping - Sends 5, 100 byte ICMP packets to
pinged host
returns success rate and round trip min/avg/max.

destination unreachable - If not configured
by trying to a

~~request timed out: No host connection.~~

Output:

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

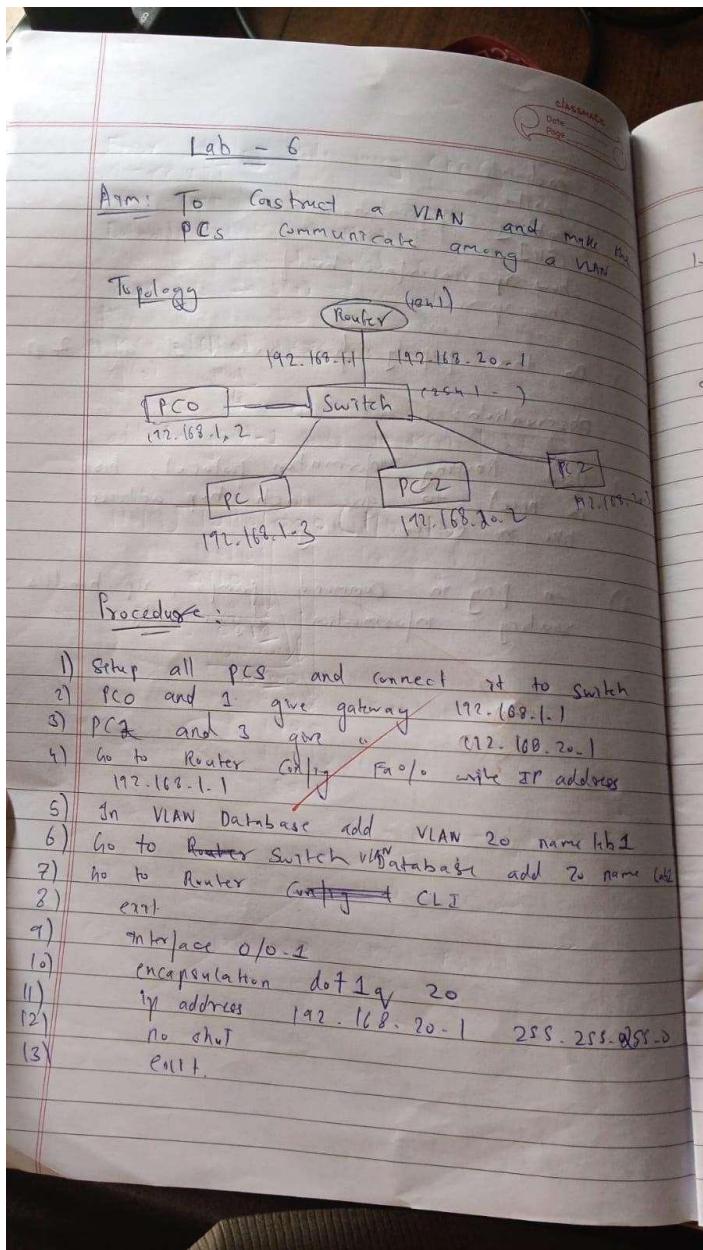
```
PC>telnet 10.0.0.1  
Trying 10.0.0.1 ...Open  
  
[Connection to 10.0.0.1 closed by foreign host]  
r1>
```

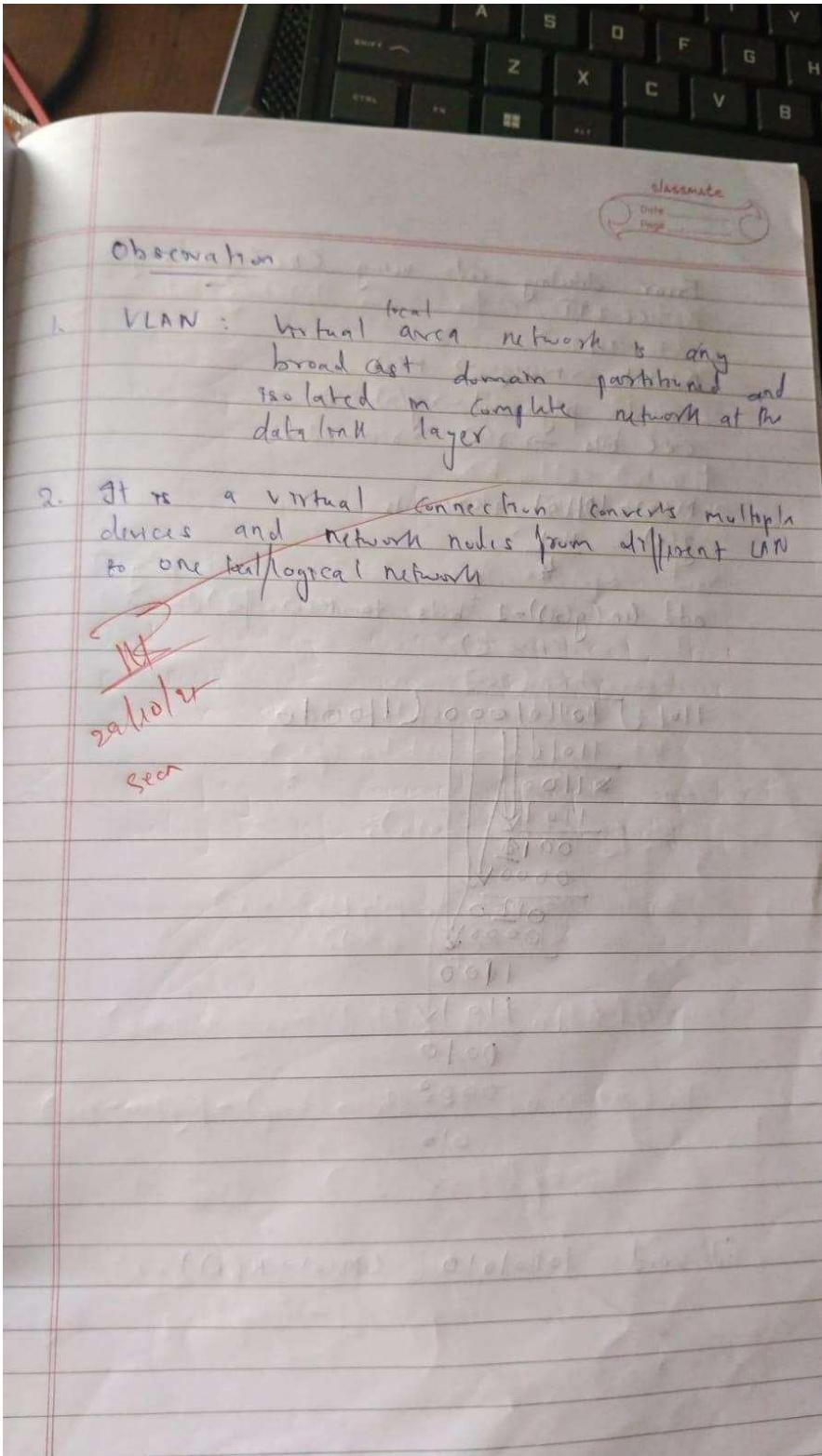
```
[Connection to 10.0.0.1 closed by foreign host]  
PC>telnet 10.0.0.1  
Trying 10.0.0.1 ...Open  
  
User Access Verification  
  
Password:  
r1>ping 10.0.0.2  
  
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 10.0.0.2, timeout is 2 seconds:  
!!!!!  
Success rate is 100 percent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

Program 11

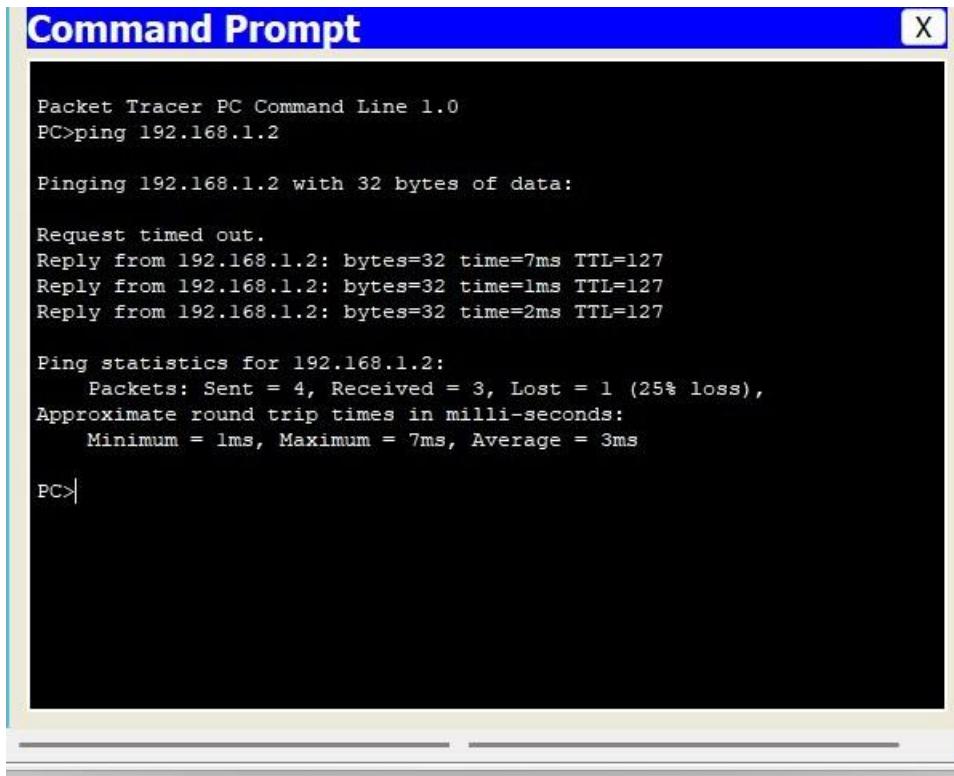
Aim : To construct a VLAN and make the PC's communicate among a VLAN

Observation:





Output:



```
Command Prompt X

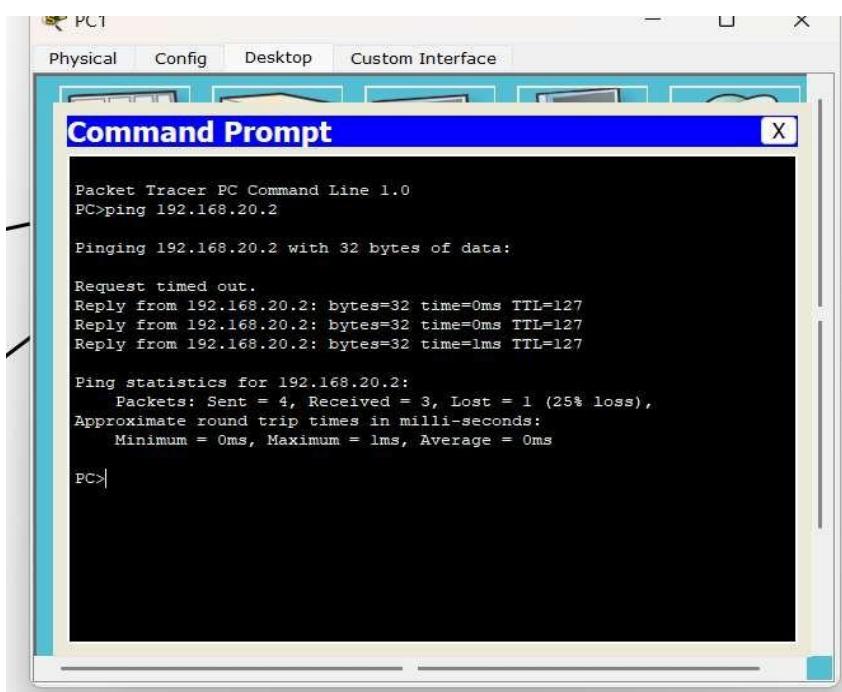
Packet Tracer PC Command Line 1.0
PC>ping 192.168.1.2

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 X

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

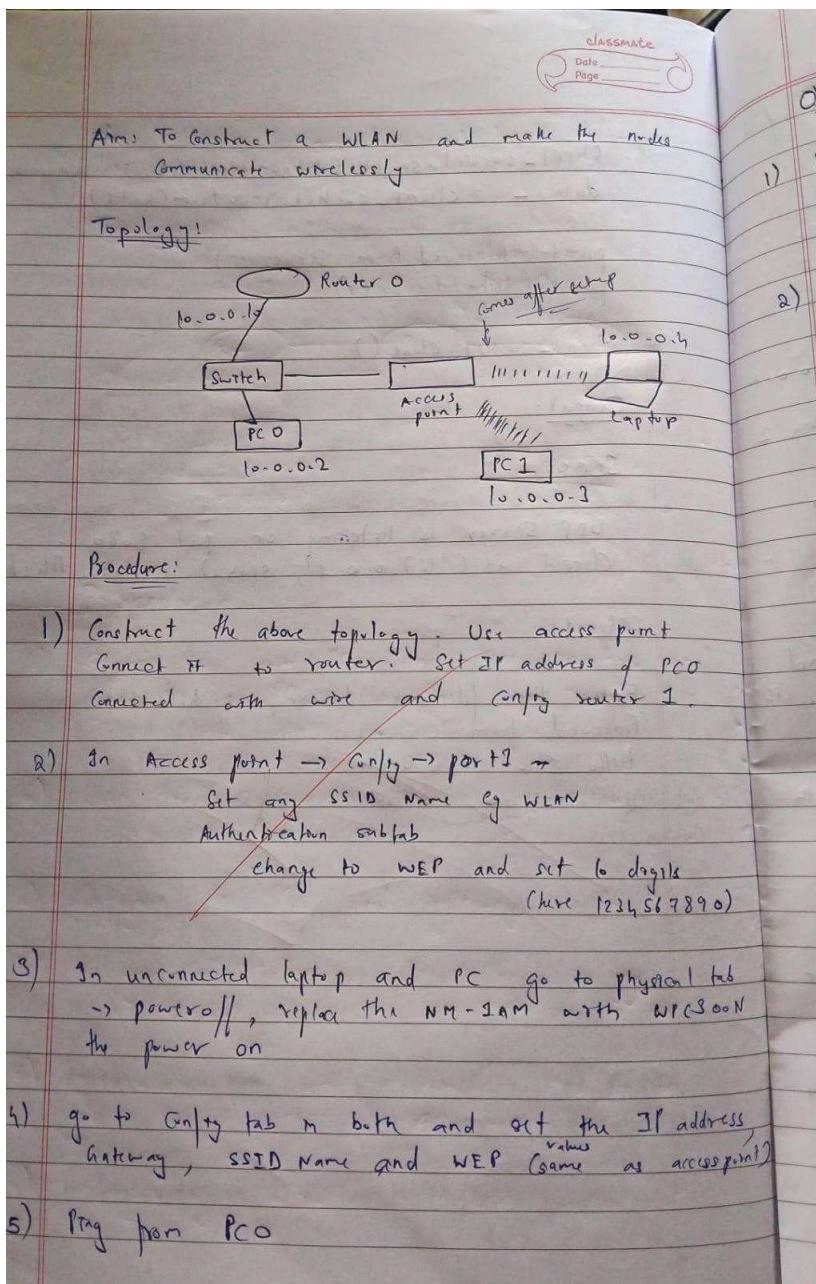
Ping statistics for 192.168.20.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

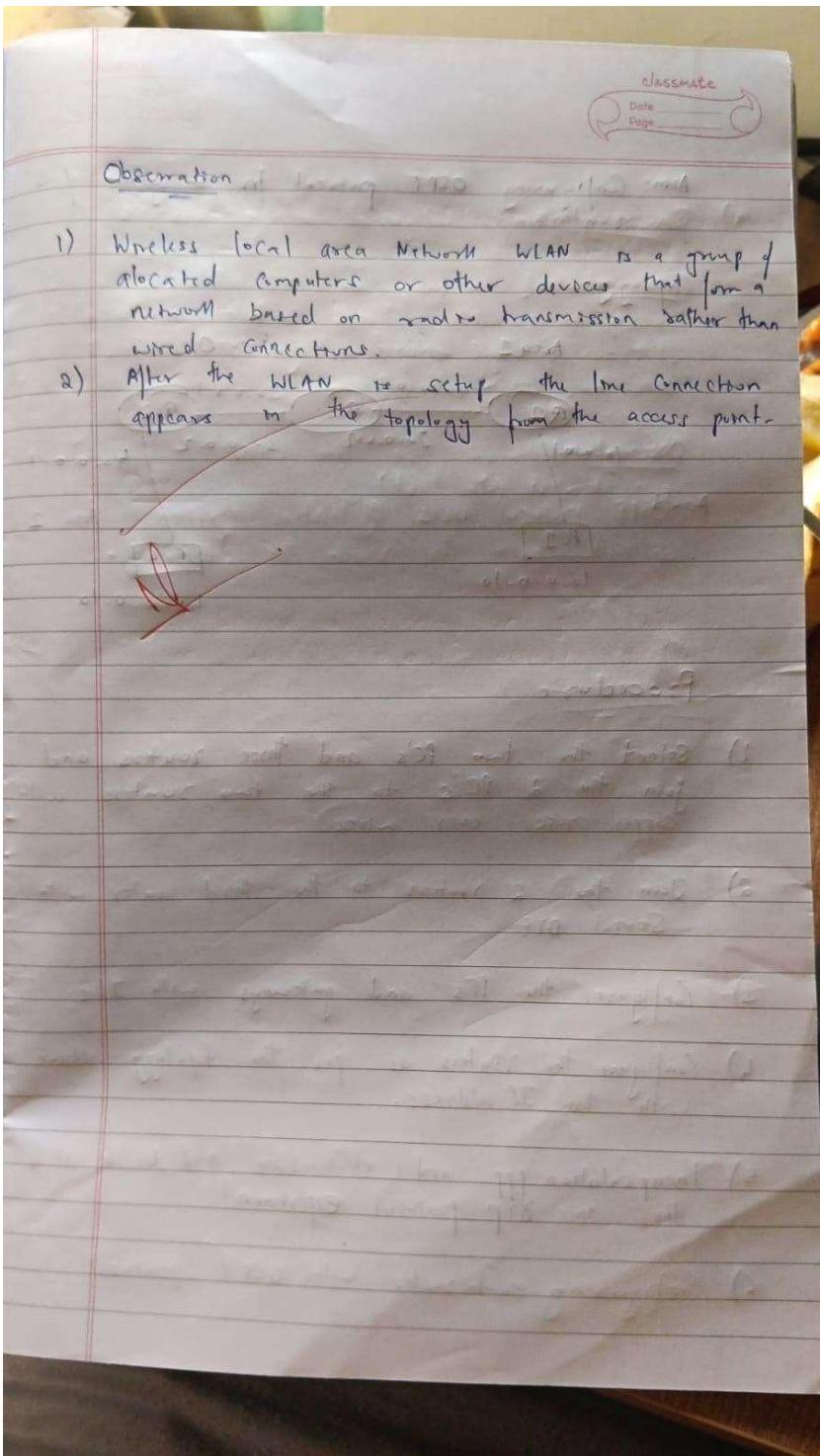
PC>
```

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:

Error detecting code using CRC (Cyclic Redundancy Check)
- CCITT

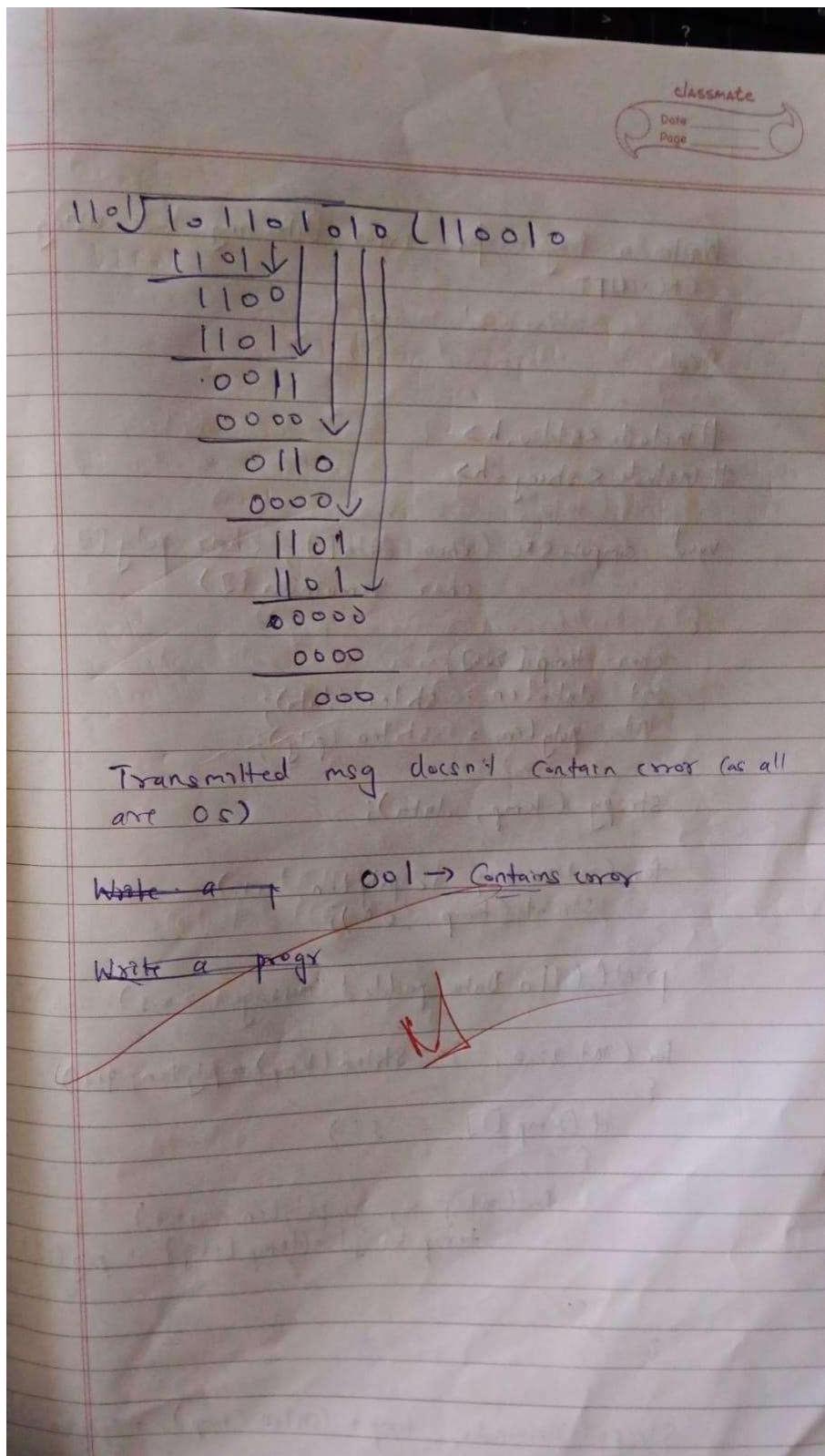
Databit \rightarrow message $\rightarrow M(x)$
Generator polynomial $\rightarrow g(x) \rightarrow$ Divisor
CRC bits $\rightarrow r(x) \rightarrow$ remainder

$M(x) = 101101 + \text{CRC bits}$
 $\underline{g(x)} = 1101$

add len($g(x)$) - 2 bits to $M(x)$ for division
(here 3)

$$\begin{array}{r} 1101 \sqrt{101101000} (110010 \\ 1101 \downarrow | \\ \times 1100 \quad | \\ 1101 \downarrow \quad | \\ 0010 \quad | \\ \underline{0000} \quad | \\ 0100 \quad | \\ 0000 \quad | \\ \hline 1000 \quad | \\ 1101 \downarrow \\ 0010 \\ 0000 \\ \hline 010 \end{array}$$

Code word: 101101010 ($M(x) + R(x)$)



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+ 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

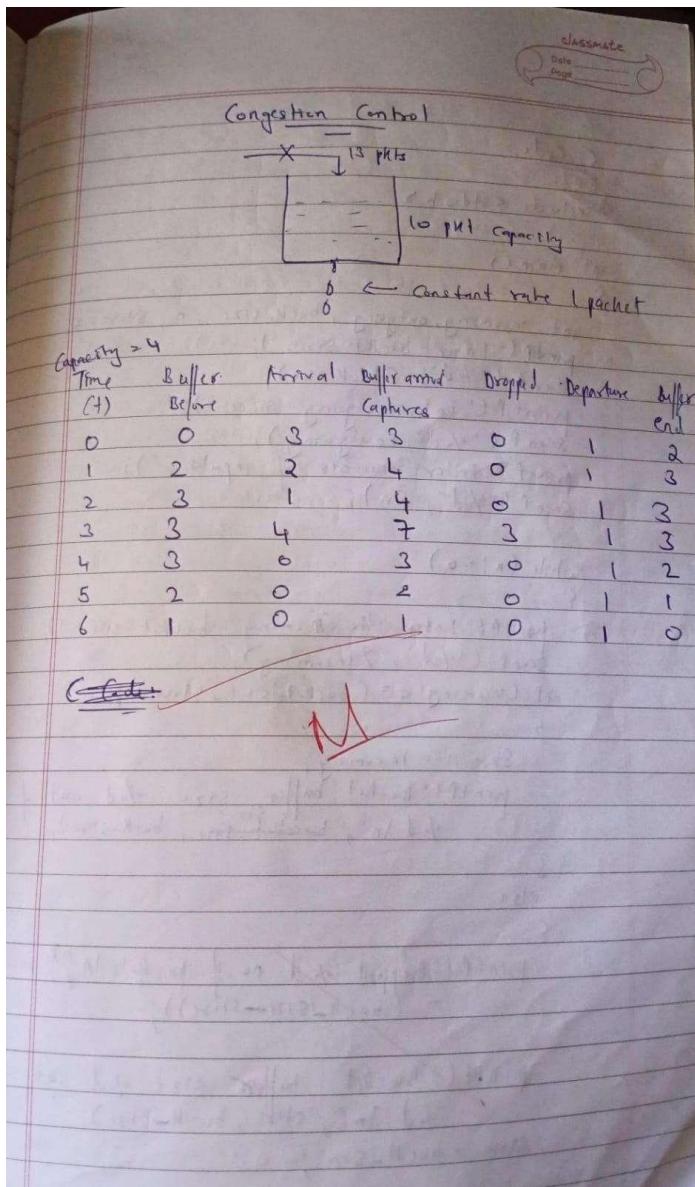
Enter received message bits (can modify 1 bit to test error): 101101101

■ No Error: Message received correctly.

Program 14

Aim : Write a program for congestion control using Leaky bucket algorithm.

Observation:



C-Code:

```
#include <stdio.h>

int main()
{
    int incoming, outgoing, buck-size, n, store=0;
    printf("Enter bucket size: ");
    scanf("%d", &buck-size);
    printf("Enter outgoing size: ");
    scanf("%d", &outgoing);
    printf("Enter number of inputs: ");
    scanf("%d", &n);

    while (n != 0)
    {
        printf("Enter the incoming bucket size: ");
        scanf("%d", &incoming);
        if (incoming <= (buck-size-store))
        {
            store += incoming;
            printf("Bucket buffer size %d out of
                  %d\n", store, buck-size);
        }
        else
        {
            printf("Dropped %d no of jackets in %d, incoming
                  - (%d)\n", incoming - (buck-size-store));
            printf("Bucket buffer size %d out of
                  %d\n", store, buck-size);
            store = buck-size;
        }
    }
}
```

classmate
Date _____
Page _____

Store = Store - outgoing;
printf ("After outgoing %d packets left out
of %d in buffer (%d, store, buck-size))
n--;

3
3

Output:

Output:

Enter bucket size: 5000
Enter outgoing rate: 2000
Enter no of inputs: 2
Enter the incoming packet size: 3000
Bucket buffer size 3000 out of 5000
After outgoing 1000 packets left out of 5000 in buffer
Enter the incoming packet size: 1000
Bucket buffer size 2000 out of 5000
After outgoing 0 packets left out of 5000 in buffer

~~Diagram~~

Program 15

Aim: Using TCP/IP sockets, write a client-server program to make client sending the file name and the server to send back the contents of the requested file if present.

Observation:

The image shows handwritten notes for a TCP socket program. At the top, it says "TCP Socket Programming". Below that, under "Code Server run ①", is the Python code for the server. It starts with "import socket", then creates a server socket, binds it to ('127.0.0.1', 8080), and listens for connections. It then enters a loop where it prints a message, accepts a connection, and prints the client's address. It then tries to open the requested filename in read mode, sends the data to the client, and handles a FileNotFoundError by sending an error message. Finally, it closes the connection and the server socket. Under "Code Client run ②", the client code is shown, which creates a client socket, connects it to ('127.0.0.1', 8080), and prompts the user to enter a filename to request.

```
TCP Socket Programming  
Code Server run ①  
import socket  
server_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)  
server_socket.bind('127.0.0.1', 8080)  
server_socket.listen(1)  
print("Server is listening on port 8080...")  
conn, addr = server_socket.accept()  
print(f"Connection from {addr} has been established!")  
filename = conn.recv(4096).decode()  
print(f"Client requested file: {filename}")  
  
try:  
    with open(filename, 'r') as file:  
        data = file.read()  
        conn.sendall(data.encode())  
except FileNotFoundError:  
    conn.send(f"Error: File '{filename}' not found.".encode())  
  
conn.close()  
server_socket.close()  
  
Code Client run ②  
import socket  
client_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)  
client_socket.connect(('127.0.0.1', 8080))  
filename = input("Enter filename to request: ")
```

classmate
Date _____
Page _____

```
client_socket.sendall(filename.encode())
data = client_socket.recv(4096).decode()
print("Received from server:")
print(data)

client_socket.close()
```

Output:

Output

After Running Server Script:
Server is listening on port 8880..
Connection from ('127.0.0.1', 58544) has been established!
Client requested file: hello.txt

Client Script:

Enter the filename to request: hello.txt
Received from server:
Hello this is Umar
I am an alien.

* Need hello.txt file to be in same folder.

N

Program 15

Aim: Using UDP sockets, write a client-server program to make client sending the file name and the server to send back the contents of the requested file if present.

Observation:

Data Page

① Server code:

```
import socket
socket_server = socket.socket(socket.AF_INET,
                               socket.SOCK_DGRAM)
socket_server.bind('localhost', 8080)
print("UDP Server is listening on port 8080")
while True:
    filename, addr = socket_server.recvfrom(4096)
    filename = filename.decode()
    print(f"Client at {addr} requested file: {filename}")
    try:
        with open(filename, 'r') as file:
            data = file.read()
        socket_server.sendto(data.encode(), addr)
    except FileNotFoundError:
        error_msg = f"Error: file '{filename}' not found"
        socket_server.sendto(error_msg.encode(), addr)
```

② client code:

```
import socket
client_socket = socket.socket(socket.AF_INET,
                               socket.SOCK_DGRAM)
server_address = ("localhost", 8080)
filename = input("Enter the file name to request: ")
```

```
client-socket.sendto(filename.encode(), serveraddress)  
data, _ = client-socket.recvfrom(4096)
```

```
print("Received from Server :")  
print(data.decode())
```

```
client-socket.close()
```

Output:

Output:

Server :

UDP Server is listening on port 8080...
Client at ('127.0.0.1', 51343) requested file: hello.txt

Client :

Enter the filename to request: hello.txt
Received from server:

Hello This is User

I am an alien

N