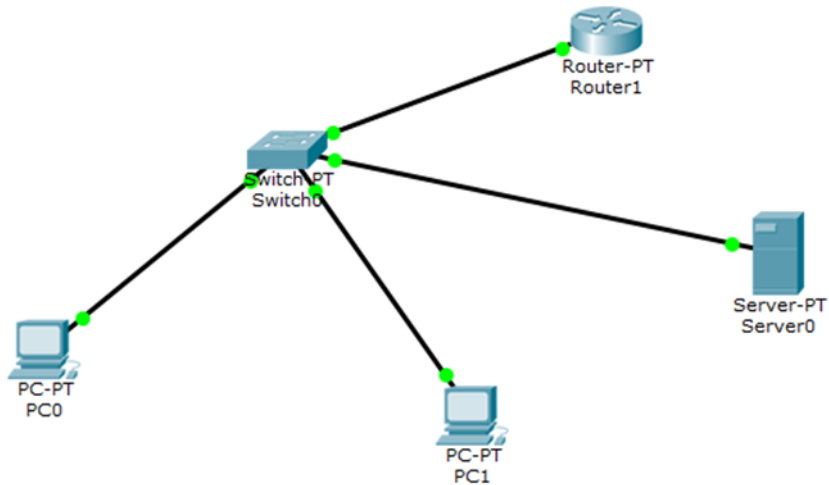


Lab-05

5a. To configure IP addresses of the host using DHCP server present within the LAN.

Topology:



Output:

```
PC0
Physical Config Desktop Custom Interface
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=0ms TTL=128
Reply from 10.0.0.4: bytes=32 time=0ms TTL=128
Reply from 10.0.0.4: bytes=32 time=0ms TTL=128
Reply from 10.0.0.4: bytes=32 time=0ms 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 = 0ms, Maximum = 0ms, Average = 0ms

PC>
```

Observation:

Lab 05: 12/11/24
Aim:
6.a Configure IP addresses of the host using DHCP server present within the LAN
6.b To Configure IP addresses of the host using DHCP server present in Different LAN.

```
graph TD
    Switch-0 --- PC-0[PC-0  
10.0.0.3]
    Switch-0 --- PC-1[PC-1  
10.0.0.4]
    Switch-0 --- Server-0[Server-0  
10.0.0.1]
    Switch-0 --- Router-0[Router-0  
10.0.0.2]
```

Configuration steps:

1. In Cisco Packet Tracer select 2 PC's, a switch, a Router and a Generic Server.
2. Connect all devices & configure server & Router.

IP address: Server - 10.0.0.1 Router - 10.0.0.2
Gateway: Server - 10.0.0.2

3. Select server & go to services, here you see some protocols, in that select DHCP.
4. In that select DHCP service on, Default Gateway as 10.0.0.2 & DNS server as 10.0.0.1 Save the process.
5. Select PC0, in that select DHCP, the IP addresses will automatically loaded. Do same for PC1 too.
6. Now ping the message

Observation:

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 = 0ms 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 = 0ms, Maximum = 0ms, Average = 0ms

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 = 0ms TTL = 128

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 = 0ms, Average = 0ms

PC > ping 20.0.0.1

pinging 20.0.0.1 with 32 bytes of data:

Reply from ~~20.0.0.1~~: bytes = 32 times = 0ms TTL = 255

ping statistics for 20.0.0.1:

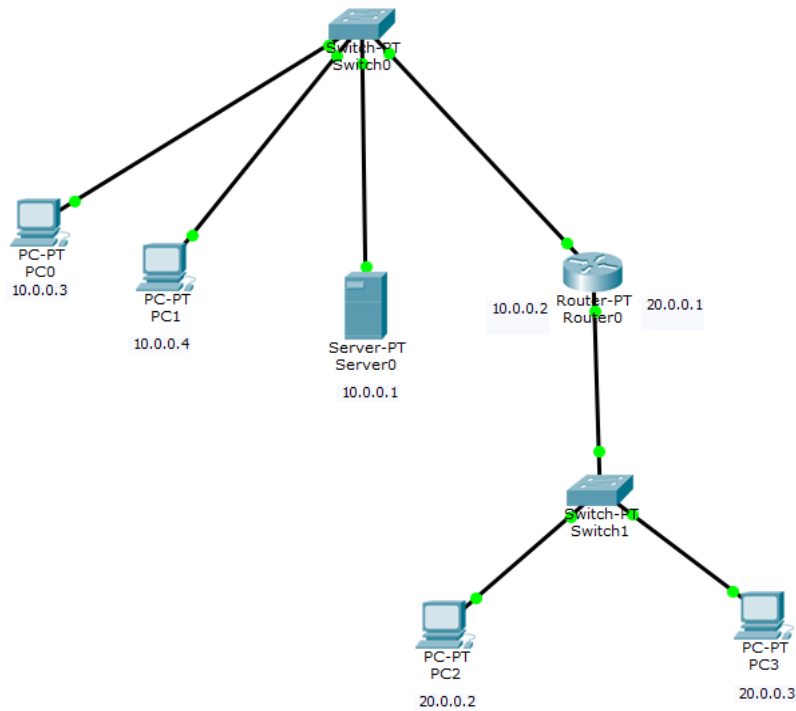
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip in milli-seconds:

Minimum = 0ms, Maximum = 2ms, Average = 0ms.

5b. To configure IP address of the host using DHCP server present in different LAN.

Topology:



Output:

```
PC>ping 20.0.0.3

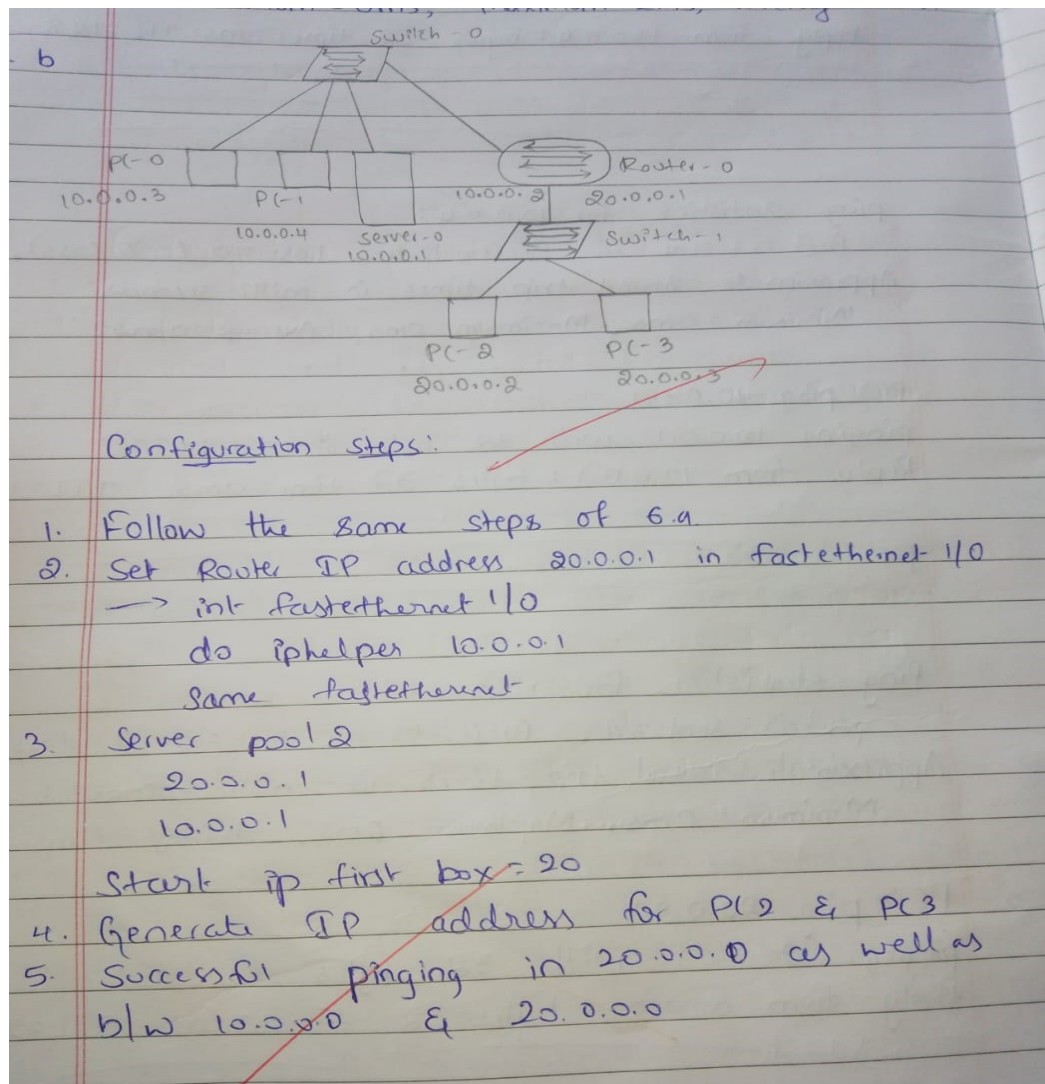
Pinging 20.0.0.3 with 32 bytes of data:

Reply from 20.0.0.3: bytes=32 time=0ms TTL=127
Reply from 20.0.0.3: bytes=32 time=0ms TTL=127
Reply from 20.0.0.3: bytes=32 time=3ms TTL=127
Reply from 20.0.0.3: bytes=32 time=0ms TTL=127

Ping statistics for 20.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 0ms

PC>|
```


Observation:



Output:

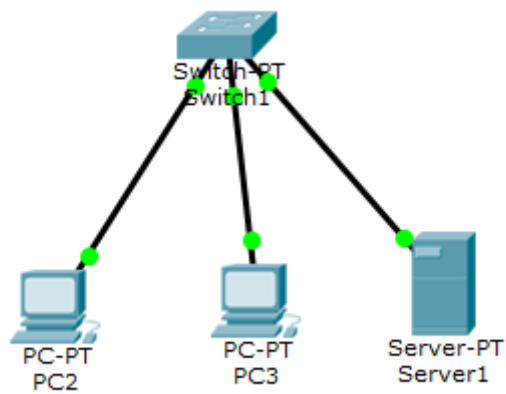
PC1 ping 20.0.0.3
pinging 20.0.0.3 with 32 bytes of data:

Reply from 20.0.0.3: bytes=32, time=0ms TTL=128

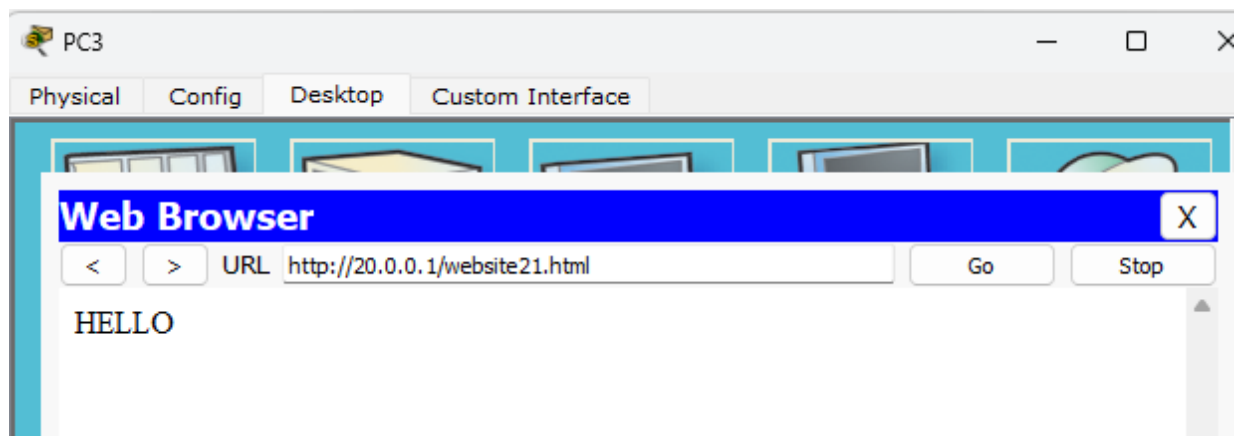
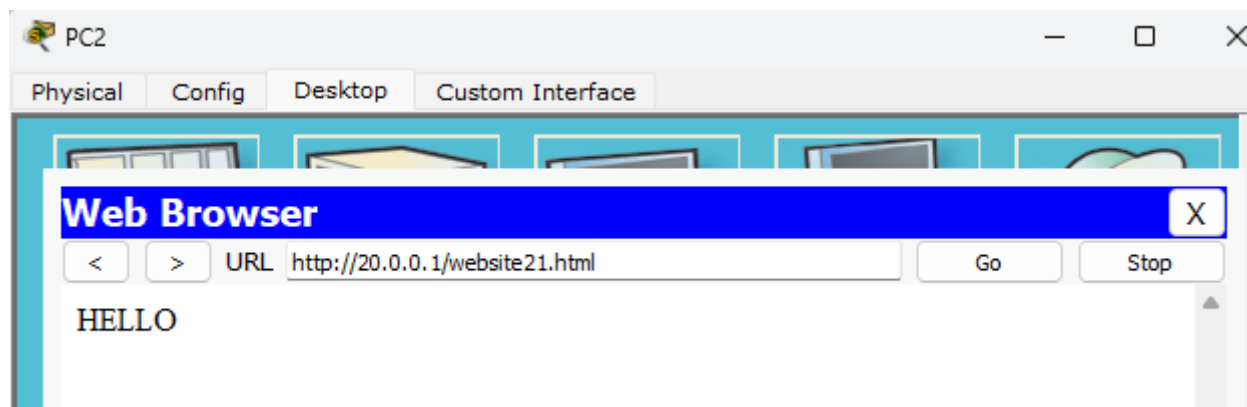
ping statistics for 20.0.0.3:
Packets: Sent=4, Received=4, Lost=0 (0% loss),
Approximate round trip in milliseconds:
Minimum=0ms, Maximum=0ms, Average=0ms

5c. To configure DNS server to demonstrate mapping of IP address and domain names.

Topology:

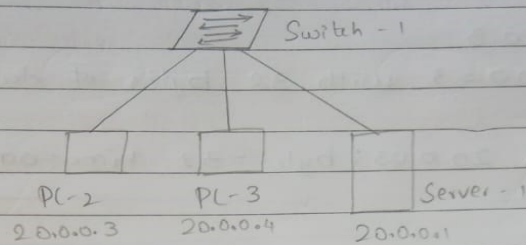


Output:



Observation:

2 To Configure DNS server to demonstrate mapping of IP addresses & Domain Names.



Configuration Steps:

1. Select 2 PC's, 1 server & 1 switch, connect all the end devices.
2. Configure IP address for the following
PC-2 - 20.0.0.1
PC-3 - 20.0.0.4
Server-1 - 20.0.0.4
3. Now, select server, go to Services, select DNS. In that add one DNS service.
4. Select HTTP, select New File, & Create a html file.
5. Now check whether the website opening from both the PC's.

Output:

PC-2

Web Browser

< > URL http://20.0.0.1/website21.html Go Stop

HELLO

PC-3

Web Browser

< > URL http://20.0.0.1/website21.html Go Stop

HELLO

leela B
22/11/24