ding of subnetting:
large network
enhancing
IP address efficiency.
ask, subnetting
s for network vs
24) subnet mask
for network,
is allows network
and isolate
performance and

implementing

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g & successfully
ified.

EXP NO :10 Internetworking with routers in cisco Packet Tracer simulator

a) Aim:

Implementing internetworking with routers in cisco Packet Tracer simulator..

Router 1. cell

Router > enable

Router # configt

Router (config) # interface go/o

Router (config-if) # ip address {IP} {subnet}

Router (config-if) # no shutdown

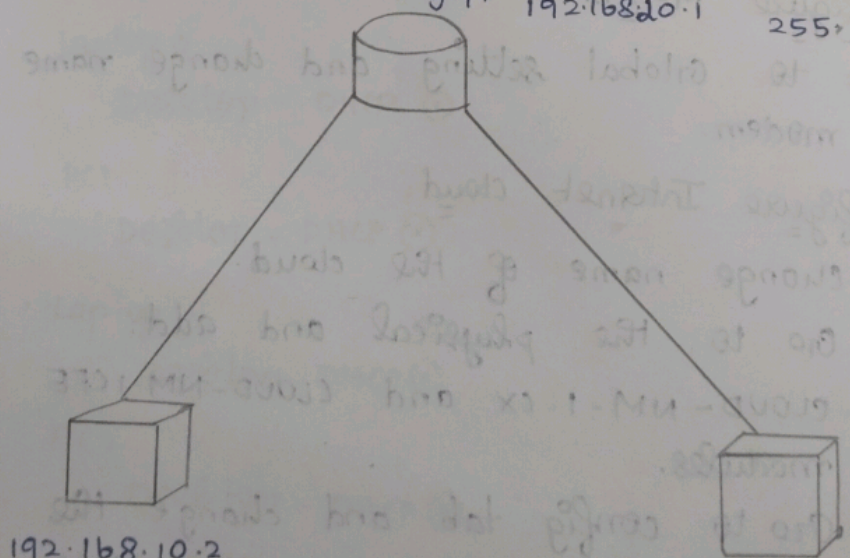
Router (config-if) # interface go/1

Router (config-if) # ip address {IP} {subnet}

Router (config-if) # no shutdown

go/o 192.168.10.1 255.255.255.0

go/1 192.168.20.1 255.255.255.0



192.168.10.2

255.255.255.0

192.168.10.1

192.168.20.2

255.255.255.0

192.168.20.2

b) Aim:

Design and configure an internetwork using wireless router, DHCP server and internet cloud.

Configure Wireless Router:

1. Go to Wireless tab.
2. Change network name (if required)

1. Go to setup tab
2. Go to DHCP and enable it
3. Add the DNS of cisco server (208.67.220.220)

Configure Laptop:

1. Go to physical tab
2. Add the wireless module
3. Go to wireless application
4. Refresh and connect to wireless network

Configure Modem:

Go to Global setting and change name of modem.

Configure Internet cloud:

1. Change name of the cloud.
2. Go to the physical and add. CLOUD-NM-1-CX and CLOUD-NM-1CFE modules.
3. Go to config tab and change the connection of FastEthernet to cable.
4. Go to cable and add a connection from coaxial to Ethernet.

Configure

Change n

configure

DHC

Go to S

Select DHC

then it e

set start

address ar

Procedure:

Arrange

Assign IP

Serve

L) S

PC0

- Desktop

Laptop 0

Desktop

PC1

Desktop

Laptop 1

Desktop

PC2

Desktop

Now ping

- configure server:

Change name of server to cisco.com
configure the static IP address of server.

DHCP	DNS
Go to services select DHCP and turn it on. set start ip address and su	Go to services select DNS and turn it on. Give domain name and IP Address and add it.

Procedure:

Arrange the PC & laptop in the page

Assign IP address:

Server - 10.0.0.1

↳ services → DHCP → default gateway - 10.0.0.1
→ service - on

PC0
- Desktop - DHCP ⊙

Laptop 0
Desktop - DHCP ⊙

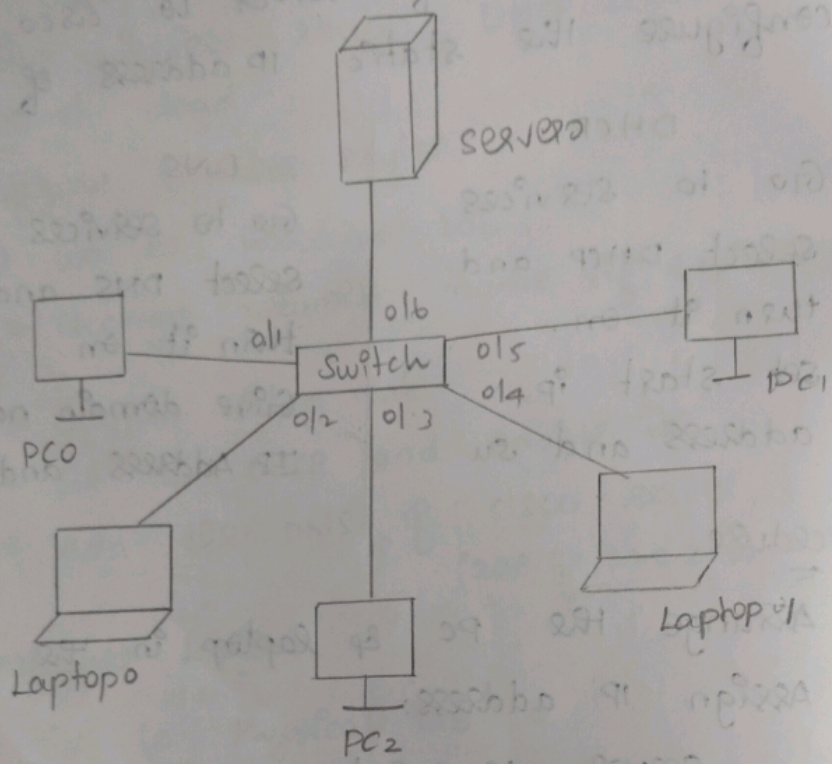
PC1
Desktop - DHCP ⊙

Laptop 1
Desktop - DHCP ⊙

PC2
Desktop - DHCP ⊙

Now ping from PCs to server.

Diagram:



Output:

Ping Laptop to PC2

Event List

Vis	Time (sec)	Last device
	0.0000	---
	0.0001	Laptop 0
	0.0002	Switch 0
	0.0003	PC2
	0.0004	Switch 0
visible	1.994	---

Thus the configuration of DHCP is successfully executed.

Exp No: 11a

Aim:

To sim
using cisco

Procedure:

Arrange
the image
Assign
Router
-> 1

Router
->

PC 0
IP - 1
Gatew

PC 1
IP - 1
Gatewa

PC2
IP -
Gateway

PC3
IP -
Gateway

Now click
Netw
Subn
Nath