

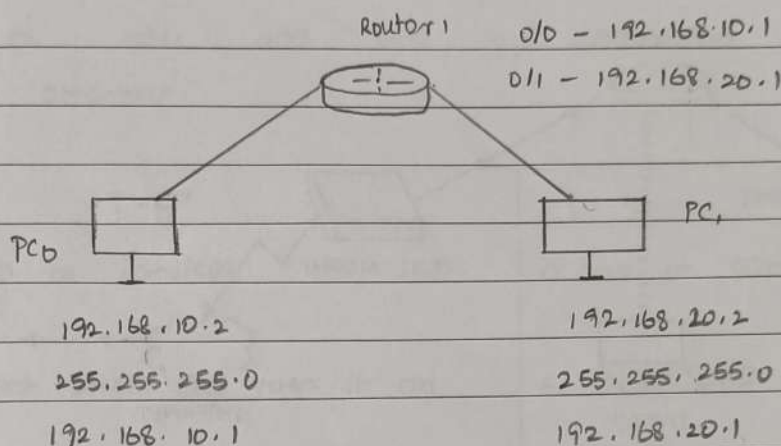
23/10/24

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## PRACTICAL - 10 (a)

AIM:

a) Internetworking with routers in Cisco packet tracer simulator



ROUTER 1 CLI:

Router > enable

Router # configure (configure - global) router configuration

Enter configuration commands, one per line. End with CTRL/Z.

Router(config)# interface FastEthernet 0/0

Router(config-if)# ip address 192.168.10.1, 255.255.255.0

Router(config-if)# no shutdown

Router(config-if)#

7. LINK - 5 - CHANGED : Interface Gigabit Ethernet 0/0, changed state to up

Router(config-if)# interface FastEthernet 0/1

Router(config-if)# ip address 192.168.20.1, 255.255.255.0

Router(config-if)# no shutdown

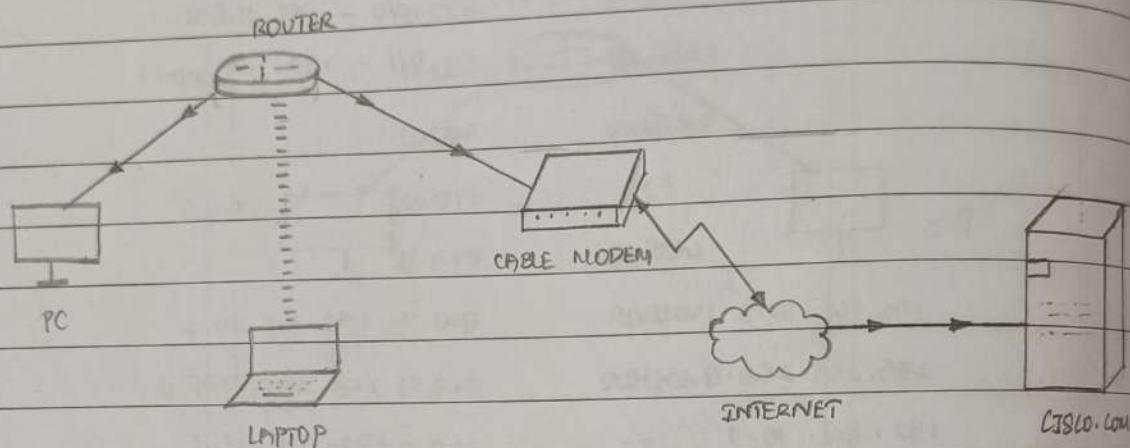
RESULT:

Thus the internetworking with routers in Cisco packet-tracer simulator is successfully executed.

## PRACTICAL - 10 (C6)

AIM:

Design and configure an internetworking 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 & enable it
- 3) Add the DNS of usco server (208.61.220.220)

CONFIGURE LAPTOP:

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

CONFIGURE MODEM:

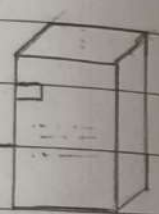
Go to global settings and change name of the modem.



### CONFIGURE INTERNET CLOUD:

- 1) change name of the cloud.
- 2) Go to the physical and add cloud-NM-1-ck and cloud-NM-1-ca module.
- 3) Go to config tab and change the connection of fast ethernet to cable
- 4) Go to cable and add a connection from coaxial to ethernet.

wireless



CISCO.COM

DHCP	DNS
1) Go to services	1) Go to services
2) select DHCP and turn it on	2) select DNS and turn it on.
3) set start IP address and subnet mask	3) Give domain name and IP address

### STUDENT OBSERVATION:

- 1) Write down the key features of configuring wireless router and DHCP server.

#### WIRELESS ROUTER:

- 1) changing name of router
- 2) Adding password to router
- 3) Enabling DNS route to the router.

#### DHCP SERVER

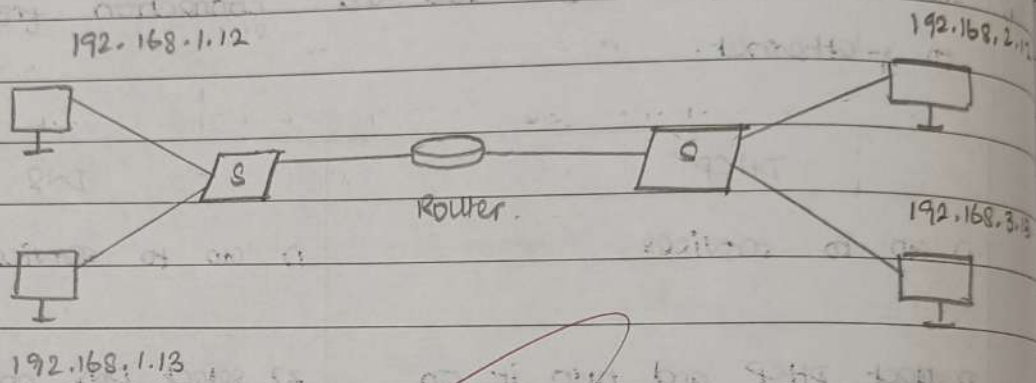
- 1) Adding default IP to the server.
- 2) Enabling DHCP service in the server.
- 3) Adding the services.

modem.

2) What is the significance of DHCP server in internetworking?

→ It automates the role of assigning  
→ IP addresses and other network config parameters.

3) Design and configure an internetwork in your lab using switch, router and ethernet cables. Also show IP addresses.



RESULT:

Thus configuration of internetworking using wireless router, DHCP server and internet cloud is executed successfully.