

## INTERNETWORKING

a) Internetworking with routers in Cisco Packet Tracer:

Procedure:

Step 1: Configuring Router

- \* Select the router and open CLI
- \* Press enter to start configuring Router.
- \* Type enable to activate the privileged mode.

Step 2: [Configuring PC's]

- \* Assign IP address to every PC in the network.
- \* Assign the PC, Go to the desktop and select IP
- \* Assign the default gateway of PC0 as 192.168.10.1
- \* Assign the default gateway of PC1 as 192.168.20.1

Step 3: Connecting PC's with router:

- \* Connect Fast Ethernet 0 port of PC0 with Fast Ethernet 0/0 port of Router1 using a copper straight through cable.
- \* Connect Fast Ethernet 0 port of PC1 with Fast Ethernet 01 port of Router1 using a copper straight through cable.

10) Design and configure an internetwork using wireless router, DHCP server.

Objectives :

Part 1 : Build a simple network in Logical Topology workspace

Part 2 : Configure the network devices

Part 3 : Test connectivity between network devices

Part 4 : Save the file and close packet tracer.

Part 1 :

1. Start packet tracer
2. Build PC topology

Part 2 :

1. Configure the wireless router
2. Configure the laptop
3. Configure the PC
4. Configure the Internet Cloud
5. Configure the cisco.com server

Part 3 :

1. Refresh the IPv4 settings on PC
2. Verify PC is receiving IPv4 configuration on DHCP
3. To test connectivity from cisco.com server to PC.

Result : This internetworking has been implemented in Cisco Packet tracer successfully.