Internetworking with the router in CISCO PACKETS TRACER SIMULATOR

Aim:-

To design and configure a simple internetworking using a router.

In this networking, a router and PC's are used. Computer's are connected with router using a copper and three cable. After forming the networking check its connectivity using a simple PDU transfer from PC 0 to PC 1.

procedure:-

Step 1: Configure router 1

1. Select the router and open CLI
2. Press enter to start configuration.
3. Type enable to activate the privileged mode.

Step 2: Configuring PCs

1. Assign IP address to every PC in the network.

2. Select the PC, config and assign IP address, default gateway, subnet.

3. Assign the default gateway of 192.168.10.1

4. Assign the default gateway of PC 1 as 192.168.20.1

Step 3: Connecting pc with router:

1. connect fastEthernet (1 port type) with fast ethernet 0/0 port of router 1 using a copper straight through cable.

2. Connect fast Ethernet (1 port) PC 1 with fastethernet 0/1 port of router using a copper straight-through cable.

Router configuration table:

Device name	IP address	Subnet mask	IP address fast ethernet 0/1	Subnet mask
Router1	192.168.0.1	255.255.255.0	192.168.0.1	255.255.255

PC configuration table:

Device name	IP address	Subnet mask	Gateway
PC0	192.168.10.2	255.255.255.0	192.168.10.1
PC1	192.168.20.2	255.255.255.0	192.168.20.1

Designed networking Topology:
Simulation of designed network.
Topology sending a PPP from pc0 to pc1

Result: Thus the above experiment is successfully completed and executed.