Internetworking

Aim:

a) Internetworking with routers in CISCO PACKET TRACER Simulator

d) Design and Configure a simple internetwork using a router.

In this network e network 2 PC are used computers are connected with routers using copper straight through cable. After forming the network to check network connectivity a simple PDU from PC0 to PC1

Procedure:

Step 1: (Configuring Router 1):

1. Select the router and open CLI
2. Press Enter to start Configuring Router 1
3. Type enable to activate the Privileged mode

Router 1 Command Line interface:

Router > enable

Router # config:

Enter Configuration Commands, one perline

Router (config)# interface fast Ethernet 0/0

Router (config-if) # ip address 192.168.10.1 255.255.255.0

Router (config.if)# no shutdown

Router (config-if)#

Step 2 (Configuring PCS):

1) Assign ip Address for PCS
2) Select the PC and set IP address
   Default Gateway. Subnet Mask.
3) Assign the Default Gateway PC0
   as 192.168.10.1
4) Assign the Default Gateway PC1
   as 192.168.20.1

Step 3: (Connecting PC's with Router:

1) Connect Fast Ethernet 0 port of PC0 with Fast Ethernet 0/0 Port of Router (using a copper

Straight through Cable

2) Same for Fast Ethernet

Router configuration table

Device Name	IP address Fast Ethernet	Subnet Mask	IP address Fast Ethernet 0/0	Subnet Mask
Router1	192.168.10.1	255.255.255.0	192.168.20.1	255-255

R 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

Result:

Thus the program is executed successfully and output is verified