Experiment No: 02

Experiment Name: Packet through Routers.

Objective:

Since we're going to transfer packet through Routers. we'll design a simple network diagram using "CISCO Packet Tracer".

First we'll test a simple packet transfer from one PC. The circuit contains one or more Hub(s), Routers, some PCs. We'll connect two end point PC-to-PC, PC-to-Hub/Switch, PC to Routers, Routers to Hub, etc.

Design procedure:

Here a simple network connection using Routers & hubs:

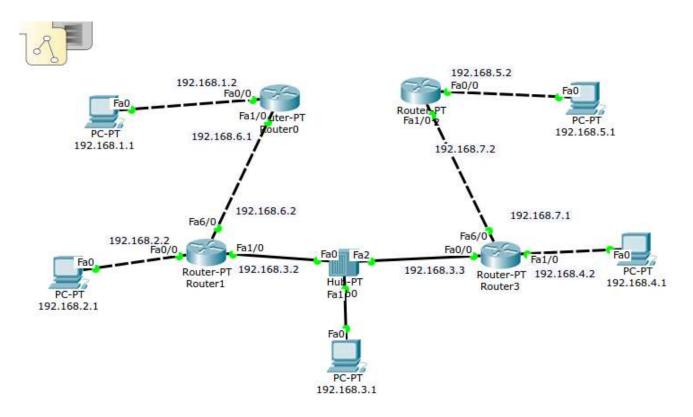


Illustration 1: A network connection with routers & Hub

This figure shows the connection among PC, routers and hub.

Details procedure of configure router, PC & hub:

1. PC IP configure:

Physical Config Des	ktop Attributes	s Software/Services
P Configuration		
IP Configuration		
ODHCP		Static
IP Address		192.168.1.1
Subnet Mask		255.255.255.0
Default Gateway		192.168.1.2
DNS Server		
IPv6 Configuration		
ODHCP	O Auto Co	onfig Static
IPv6 Address		/
Link Local Address		FE80::206:2AFF:FE57:A921
IPv6 Gateway		
IPv6 DNS Server		
IPv6 DNS Server		

Illustration 2: IP configure of PC

2. Router configure:

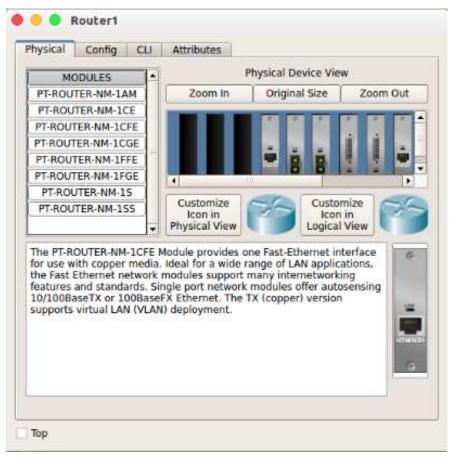
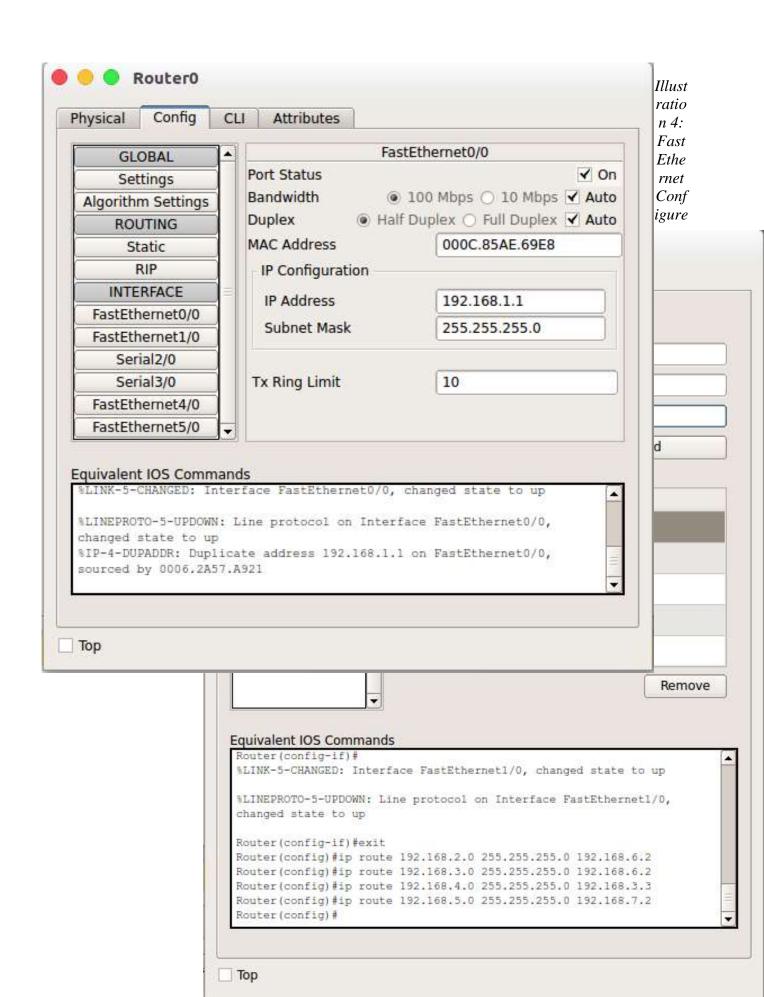
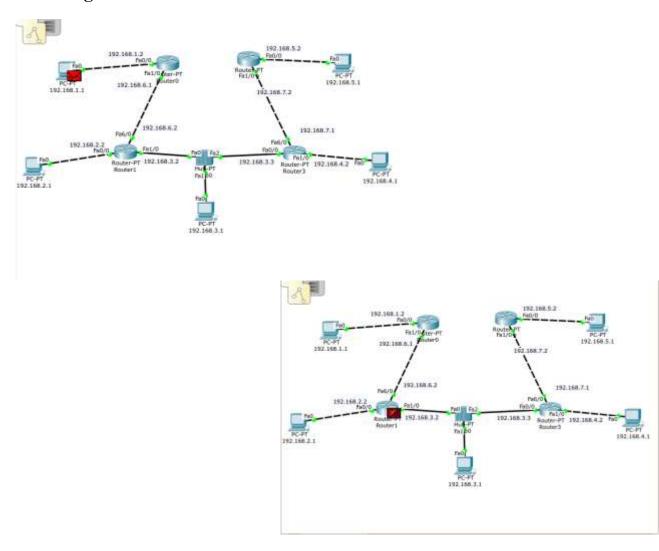


Illustration 3: Add Interface card ICFE



3. Packet transferring between two PC.



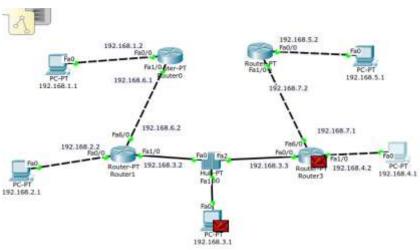
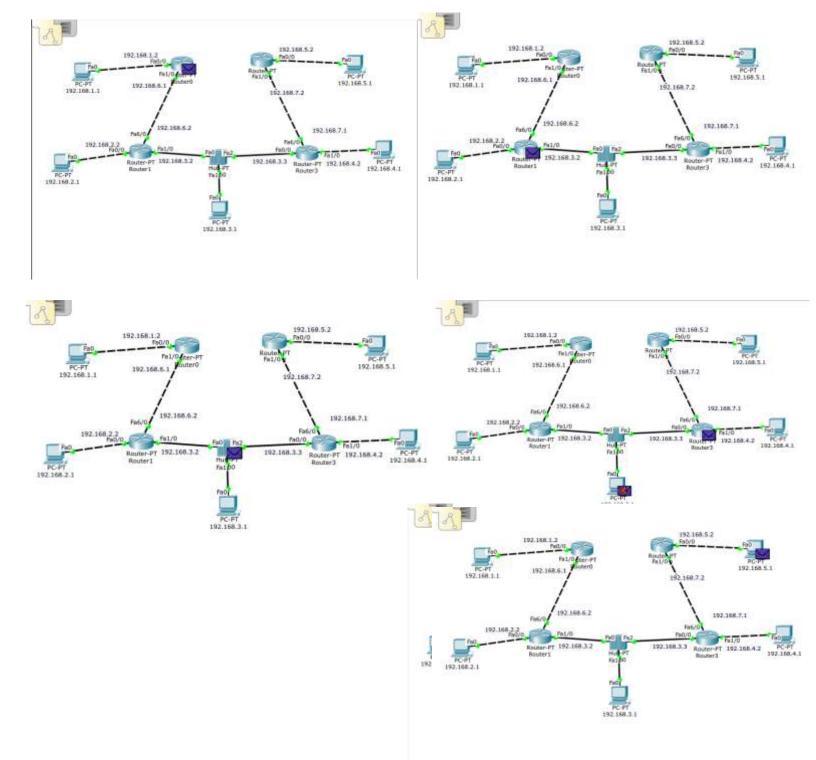
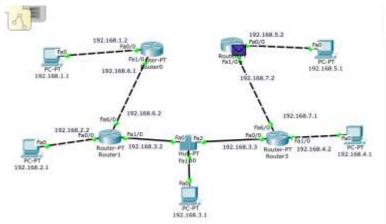
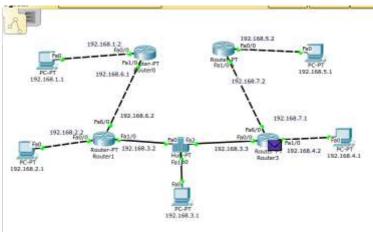


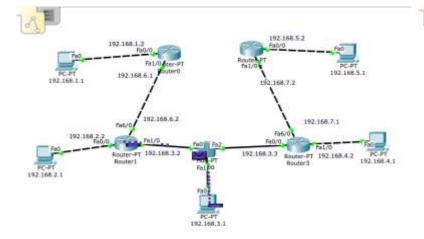
Illustration 6: First time packet transferring

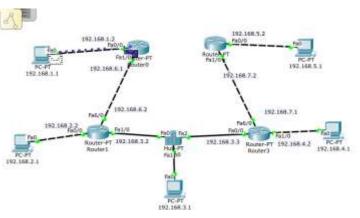
Successful packet transferring:











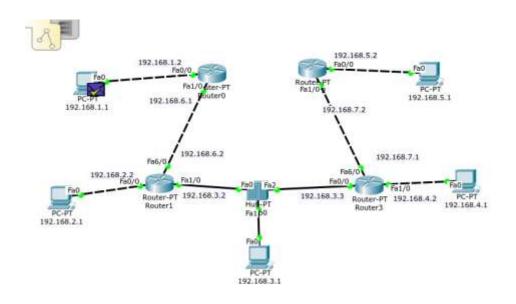


Illustration 7:
Transferring

packet trough Routers.