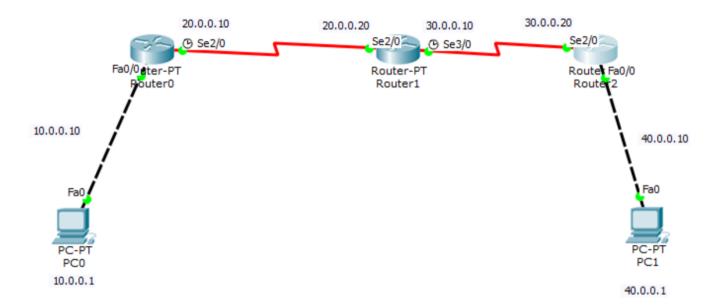
Experiment - 5

Aim: Configure RIP routing Protocol in Routers



```
Router#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router rip
Router(config-router) #network 10.0.0.0
Router(config-router) #network 20.0.0.0
Router(config-router) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1. E2 - OSPF external type 2. E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     10.0.0.0/8 is directly connected, FastEthernet0/0
     20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
       20.0.0.0/8 is directly connected, Serial2/0
       20.0.0.20/32 is directly connected, Serial2/0
    30.0.0.0/8 [120/1] via 20.0.0.20, 00:00:18, Serial2/0
     40.0.0.0/8 [120/2] via 20.0.0.20, 00:00:18, Serial2/0
```

Router#

```
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router rip
Router(config-router) #network 20.0.0.0
Router(config-router) #network 30.0.0.0
Router(config-router) #exit
Router(config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
      P - periodic downloaded static route
Gateway of last resort is not set
R
     10.0.0.0/8 [120/1] via 20.0.0.10, 00:00:20, Serial2/0
     20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
        20.0.0.0/8 is directly connected, Serial2/0
        20.0.0.10/32 is directly connected, Serial2/0
     30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
        30.0.0.0/8 is directly connected, Serial3/0
        30.0.0.20/32 is directly connected, Serial3/0
     40.0.0.0/8 [120/1] via 30.0.0.20, 00:00:19, Serial3/0
```

Router#

Router#

```
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #network 30.0.0.0
% Invalid input detected at '^' marker.
Router(config) #router rip
Router(config-router) #network 30.0.0.0
Router(config-router) #network 40.0.0.0
Router(config-router)#exit
Router(config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     10.0.0.0/8 [120/2] via 30.0.0.10, 00:00:14, Serial2/0
     20.0.0.0/8 [120/1] via 30.0.0.10, 00:00:14, Serial2/0
     30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
        30.0.0.0/8 is directly connected, Serial2/0
        30.0.0.10/32 is directly connected, Serial2/0
     40.0.0.0/8 is directly connected, FastEthernet0/0
Router#
```

Router#config t



PC>

Physical Config Desktop Custom Interface

Command Prompt



Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Request timed out.

Reply from 40.0.0.1: bytes=32 time=10ms TTL=125
Reply from 40.0.0.1: bytes=32 time=7ms TTL=125
Reply from 40.0.0.1: bytes=32 time=10ms TTL=125

Ping statistics for 40.0.0.1:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:

Minimum = 7ms, Maximum = 10ms, Average = 9ms



,	Bafna Gold — Oata: Paga:
	ROUTING INFORMATION PROTOCOL
	AM: Configure RIP routing Protocol in Rout
-9	Topology:
	30.0,0,10
	10.0.0.10
	S. Matter S. Account
	I Company to the second second
	A 2
	10.0.0.1
	ale lours south the
	Procedure: ac.aa.ac xxxxxxxx
	0/8 /0/22/ Months #
•	Place 2 PT-PC's and three routers onto the
*	logical interface.
•	connect the couter to one another
	using serial DCE. PT-PC's using
•	Connect the scorters to copper cross over.
	set ip address and gate ways con PT-PC'S.
	1010.0.1 00 A.O. O.
	Setting voriter 1 gg milh uchoons
	Router > enable
	D Tou # compliance t
	# interface Fast Ethernot 0/0 # ip address 10.0.0.10 255.0.0.0
	# :h address 10.0.0.10 255.0.0.0
/	# exit
	the start are several 2/0
	# interface serial 2/0 # ip adress 20.0.0.10 255.0.0.0
	# ip addless 20.0.0.000
	# exit
	# interface serial 2/0

	and order
	# ip address 20.0.0.10 255.0.0.0
	# encapsulation ppp
a Boute	# clock state 64000
	# no shut.
	# interface fastethernet 0/0
	# ip address 10.0.0.10 255.0.0.0
	# no shut.
	6- 10- 1 Sept.
	Router &
	> 2. 100
	> enable
	# config t.
	# interface serial 2/0
	# exit ip address 20.0.0.20 255.0.0.0 # interface serial 3/0
it of	# ip address 30.0.0.10 255.0.0.0
	# encapsulation ppp
H	# clock rate 64000
	# no shed 300 lains she some
250	the contact of the same of the
7	# interface serial 2/0
-	# 2p address 20.0.0, 20 255.0.0.0
7	# encapsulation ppp 1 reiting position
7.	# no shut. 9th of stand
	Realis of Configure T
	Router 3 Olotomients took indeed to
	# interface Serial 3/0
7	# extip address 30.0.0.20 255.0.0.0
7	# exit alland entrains #
#	* enterface Fast Ethornet 0/0
A	# ip address 40.0.0.10 255.0.0.0
	t no shut. O's laires socketain to

	Bafna Gold — Oate: Page:
	# exit
	# interface social 3/0
	# ip address 30.0.0.20 255.0.0.0
	# encapsulation ppp
- 117	# no what is a series of all series
e m	Reed Person 100 A 12 days 15 to 1 world me
147 P	Router sup for Router 1
LIT.	# exit
	# souter sup
	# network 10.0.0.0
No1	# network 20.00.0
Jana 1	# exit! white disk branches at minerally
2	Minimum = and Make Hors And = 12 m
	Router sup for Router 2
	# exit strass ray strass estrass
	# router sup
	# metwork 20.0.0.0
	# network 30.0.0.0
	# exit.
1	0.08 Bu Felans 8/0.0.0.01 . 8
	Router sup for Router 3
	1 # rexit wire and assistant and all ages shows
	# souter sup of laws a soud and
trache	# metrork 30, 0.0.0
	# network 40.0.0.0
	# exit.
014	# exit 2006 6 210,000
	M's dained "
Loke	Router route for Router 3
/	Router route for Router 3 # show ip route
	Grateway of Cast viesort is not set
	R 10.0.0.0/8 [120/2] via

	PC> Ping 10.0.0.1
	Pinging 10.0.0.1 with 32 bytes of data
	Reply from 10.0.0.1: bytes = 32 time 14 ms TTI=125 Reply from 10.0.0.1: bytes = 32 time=14 ms TTI=125 Reply from 10.0.0.1: bytes = 32 time=14 ms TTI=125 Reply from 10.0.0.1: bytes = 32 time=9 ms TTI=125 Reply from 10.0.0.1: bytes=32 time=9 ms TTI=125
	Ping statistics. for 10.0.0.1:
	Packets: sent = 4, Recieved = 4, host = 0(0); approximate round tout times im milliseconds: Minimum = 9 ms, Max = 14 ms, Avg = 12 ms
700	e water the lost Palitine of the state of
70	Router proute for Router3 # show up address vioute.
	Grateway of last respect is not set.
	R 10.0.0.0/8 [120/2] ma 3.0.0.10, 00:00:05, Serial 3/0
Tolo N	R 20.0.0/8 [120/1] via 30.0.0.10.
	30:0.0.0/8 & directly nariably subnetly subnetly
	C 30.0.0.0/8 is directly connected, to
25/1/2	c 30.0.0.10/32 is directly connected,
	C 90.0, 0.0/8 is directly connected, Jast Ethernet 0/0.