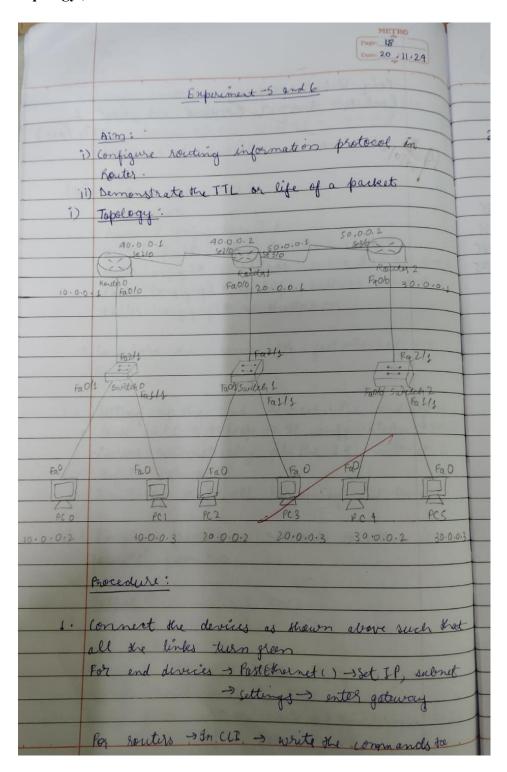
## Program 6

Aim: Configure RIP routing Protocol in Routers.

## **Topology**, **Procedure and Observation:**



settip all the IP addresses of the routes.  2. For routing  for each routes go to CLI and inter  ex houters inably  fronters mably  fronter (config terminal  router (config - router) # notwork 40.0.00  router (config - router) # notwork 20.0.00  Similarly for  houters = connect to notwork 10.0.00 and 20.000  Routers = connect to notwork so.0.00 and 20.000  8. Once this situp is complete, we can the message from one device to any other and direct.  Output:  3. Router 0  routers # show ip route  6. 100.0018 is directly connected, footestimated to Records Island So.00018 [12015] via 40.0.02, 00:00:15, social 210  R so.00018 [12015] via 40.0.02, 00:00:15, social 210  R so.00018 [12015] via 10.0.02, 00:00:15, social 210  R so.00018 [12015] via 10.0.02, 00:00:15, social 210		Page 19
for each reuty go to CII and enter  It levels!  Prouter & northy  Prouter & config terminal  Prouter (config router) & notwork 40.0.0.0  Prouter (config router) & notwork 50.0.0.0  Prouter (config router) & notwork 50.0.0.0  Prouter (config router) & notwork 20.0.0.0  Prouter (config router) & notwork 10.0.00 and 30.00.0  Router & connect to notwork 10.0.00 and 30.00.0  Router & connect to notwork 50.0.0.0 and 30.00.0  3. Once this situp is complete, we can the message from one device the any other and device.  Output:  In Router O  Prouter & those is forte  C 10.0.018 is directly connected, footfloornet 100  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Social 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Social 210  C 40.0.0.018 is connectedly connected, Social 310		setup all the IP addresses of the routes.
for each reuty go to CII and enter  It levels!  Prouter & northy  Prouter & config terminal  Prouter (config router) & notwork 40.0.0.0  Prouter (config router) & notwork 50.0.0.0  Prouter (config router) & notwork 50.0.0.0  Prouter (config router) & notwork 20.0.0.0  Prouter (config router) & notwork 10.0.00 and 30.00.0  Router & connect to notwork 10.0.00 and 30.00.0  Router & connect to notwork 50.0.0.0 and 30.00.0  3. Once this situp is complete, we can the message from one device the any other and device.  Output:  In Router O  Prouter & those is forte  C 10.0.018 is directly connected, footfloornet 100  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Social 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Social 210  C 40.0.0.018 is connectedly connected, Social 310	2.	For souting
router mable  pouter # config terminal  router (config ) # router rip  fronter (config router) # network 40.0.0.0  router (config router) # network 50.0.0.0  router (config router) # network 20.0.0.0  Similarly for  Router 0 > connect to network 10.0.00 and 20.00.0  8 country 2 > connect to network 50.0.0.0 and 20.00.0  3. Once this situp is complete, are con the message often one device to any other and device.  Output:  In Router 0  router # show ip route  [ 100.008 is directly connected, fastersoratolo  R 200.008 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.008 is toom directly connected Serial 310		For each router go to CLI and enter
router (config terminal router (config fecter) # router Rip houter (config fecter) # rotwork 40.0.0.0  router (config fecter) # rotwork 50.0.0.0  Similarly for Router 0 + connect to network 10.0.00 and 40.0.0.0  Router 2 + connect to retwork 50.0.0.0 and 30.00.0  3. Once this situp is complete, we con the message from one device to any other and device.  Output:  In Router 0  reuter # Mow ip route  [ 10.0.018 is directly connected, fasterbornet 010  R 200.018 [1201] Jvia 40.0.0.2, 00:00:15, Social 210  R 30.0.018 [1201] Jvia 40.0.0.2, 00:00:15, Social 210		It's Kareley &
router (config renter) # notwork 40.0.0.0  router (config renter) # notwork 50.0.0.0  router (config router) # notwork 20.0.0.0  similarly for  houter o - connect to notwork 10.0.00 and 20.00.0  Router 2 - connect to notwork 50.0.0 and 20.00.0  3. Once this situp is complete, we can the message from one device to any other and device.  Output:  Output:  In Router 0  renter # show ip route  C 10.0.018 is directly connected, fastificant 010  R 200.018 [1201] Via 40.0.0.2, 00:00:15, Serial 210  C 10.0.018 is soon directly connected, Strial 210	Doed	
houter (config factor) # network 40.0.0.0  router (config fouter) # network 50.0.0.0  Similarly for  Router 0 > connect to network 10.0.0.0 and 40.0.0.0  Router 2 > connect to network 50.0.0.0 and 30.0.0.0  3. Once this situp is complete, we can the message from one device to any other and device.  Output:  Output:  In Router 0  Recuter 4 show ip route  C 10.0.0018 is directly connected, fastothernet 0/0  R 200.0018 [12015] via 40.0.0.2, 00:00:15, Serial 2/0  C 40.0.0018 is connected connected, Strial 3/0	511 1 1	
reuter (config - router) # retwork 50.0.0.0  Similarly for  Router 2 > connect to network 10.0.0.0 and 40.0.0.0  Router 2 > connect to network 50.0.0 and 30.0.0.0  3. Once this stup is complete, are con the message from one device to any other end device.  Output:  3. Router 0  Souter 4 Mow ip route  [ 10.0.0018 is directly connected, fastothernot 010  R 200.0018 [12015] via 40.0.0.2, 00:00:15, Serial 210  C 40.0.0018 is soon directly connected, Strial 210	10.01	houtes (confine-souths) & notwoods 40.0.0.0
Similarly for  Route 0 > connect to network 10.0.00 and 40.0.00  Route 2 > connect to network 50.0.00 and 30.00.0  3. Once this situp is complete, we con the nesserge from one device to any other and device.  Output:  Output:  In Route 0  rents # show ip route  C 100.0018 is disetly connected, fastifier not 010  R 200.0018 [12011] via 40.0.0.2, 00:00:15, Schiel 210  R 30.0.0.018 [12011] via 40.0.0.2, 00:00:15, Schiel 210  C 40.0.0018 is connected connected schiel 210	758= 11	Souter (config - router) # returns & 50.0.0.0
Similarly for Nowty 0 > connect to network 10.0.0.0 and 40.0.0.0  Router 2 > connect to network 50.0.0.0 and 30.0.0.0  3. Once this situp is complete, we can the nessage from one device the any other end device.  Output:  Output:  In Router 0  Results # show ip soute  C 10.0.018 is disettly connected, fastethernet 010  R 200.0.018 [12011] via 40.0.0.2, 00:00:15, Schial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Schial 210  C 40.0.0.018 is now directly connected, Schial 210		router (config-souter) # network 20.0.0.0
Routes 0 > connect to notwork 10.0.0.0 and 40.0.0.0  Routes 2 > connect to notwork 50.0.0.0 and 30.0.0.0  3. Once this situp is complete, we can the message from one device to any other end device.  Output:  In Routes 0  reutes # show ip route  C 10.0.018 is disertly connected, faste thernot 010  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  C 40.0.0.018 is row directly connected, Serial 210		Commence of the commence of th
Routes 0 > connect to notwork 10.0.0.0 and 40.0.0.0  Routes 2 > connect to notwork 50.0.0.0 and 30.0.0.0  3. Once this situp is complete, we can the message from one device to any other end device.  Output:  In Routes 0  reutes # show ip route  C 10.0.018 is disertly connected, faste thernot 010  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  C 40.0.0.018 is row directly connected, Serial 210	S 137	Smilarly for
3. Once this situp is complete, we can the message from one device to any other end device.  Output:  In Router O  renter # show ip route  C 10.0.0.018 is directly connected, fasts stornet 010  R 200.0.018 [12011] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210		
Output:  In Router 0  Prenter # show ip route  C 10.0.0.018 is directly connected, faste stearnet 010  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210		Routes 2 > connect to network 50.0.0.0 and 30.0.0.0
Output:  In Router 0  Prenter # show ip route  C 10.0.0.018 is directly connected, faste stearnet 010  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210		publicated an entral
Output:  In Router 0  Prenter # show ip route  C 10.0.0.018 is directly connected, faste stearnet 010  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210	3 .	Once this stup is complete, we can the
In Route 0  Prenter # Show ip route  C 10.0.0.018 is directly connected, fast thernet 010  R 200.0.018 [12011] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12011] via 40.0.0.2, 00:00:15, Serial 210		message from one device to any other end
In Router 0  Senter # show ip route  C 10.0.0018 is directly connected, faste thernet 010  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210		y that was lained of the root of
In Route 0  Prentis # Show ip route  6 10.0.0018 is directly connected, fast thernet 010  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210		Output:
Renter # show ip route  6 10.0.0.018 is directly connected, fast&florenet 010  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210	2000	to their an feeter action on the much
Renter # show ip route  6 10.0.0.018 is directly connected, fast&florenet 010  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210		In Routy O
C 10.0.0.018 is directly connected, fastethernet 010  R 200.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210  R 30.0.0.018 [12015] via 40.0.0.2, 00:00:15, Serial 210		
R 200.0.0 18 [12015] via 40.0.0.2, 00:00:15, Serial 2/0  R 30.0.0.0 18 [12015] via 40.0.0.2, 00:00:15, Serial 2/0  6 40.0.0.0 18 is conditionally connected, Serial 2/0		
R 30.0.0.0 18 [12016] via 40.0.0.2, 00.00:15, Serial 210		
6 10.0.0.0 18 is for directly connected, serial 210	42.15	
R 50.0.0.0 18 [12013] via 10.0.0.2, 00:00:15, Serial 2	Deres	
		R 50.0.0.0 18 [12013] via 10.0.0.2, 00:00:15, Serial 2/0
Similarly the output is shown for router I an	5 1 5	imilarly the output is shown for router I and
Soutes 2	Side la	sortes ?

Date:
ping output
( from PCS to PCO)
PCS -> Command Prompt PC> Ring 10.0.0.2
pinging 10.0.0.2 with 32 bytes of data. Reply from 10.0.0.2: bytes = 32 time 2ms TTL=125
Reply from 10.0.0.2: bytes = 32 time 1 ms TTL = 125 Keply from 10.0.0.2: bytes=32 time 11 ms TTL=125
Reply from 10:0:0:2: byty=32 time 11mg TT = 125
Ping statistics 10.0.0.2 Packets Sent - 4, Received 24, Lost 20 (0%, Loss)

## **Screen Shots:**

