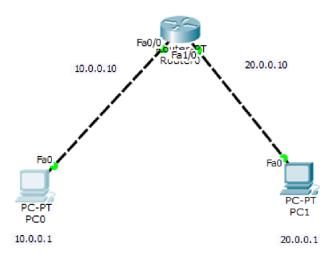
Experiment - 2

Aim:

Configure IP address to routers in packet tracer. Explore the following messages: ping responses, destination unreachable, request timed out, reply



Command Prompt

PC>ping 20.0.0.1

Х

```
Pinging 20.0.0.1 with 32 bytes of data:
```

```
Request timed out.

Reply from 20.0.0.1: bytes=32 time=0ms TTL=127

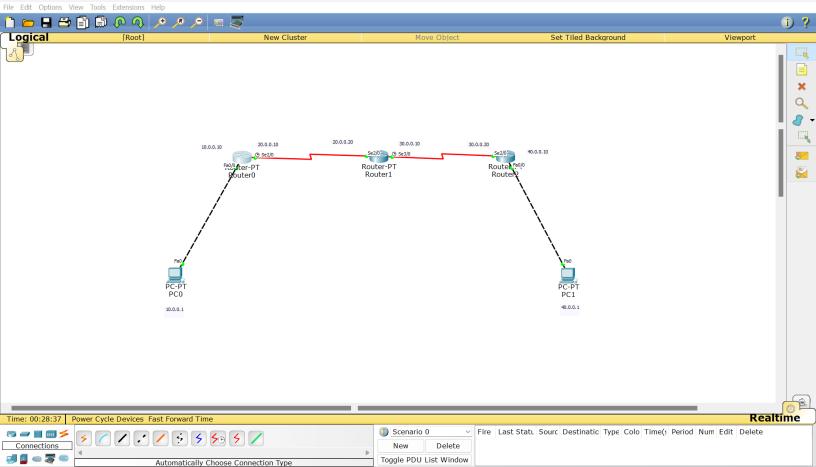
Reply from 20.0.0.1: bytes=32 time=0ms TTL=127
```

Reply from 20.0.0.1: bytes=32 time=1ms TTL=127

```
Ping statistics for 20.0.0.1:
    Packets: Sent = 4. Received = 3. Lost = 1 (25% loss).
```

```
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
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
C 10.0.0.0/8 is directly connected, FastEthernet0/0
C 20.0.0.0/8 is directly connected, FastEthernet1/0
Router#
```



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:

```
Reply from 10.0.0.10: Destination host unreachable. Reply from 10.0.0.10: Destination host unreachable. Reply from 10.0.0.10: Destination host unreachable. Reply from 10.0.0.10: Destination host unreachable.
```

Ping statistics for 40.0.0.1: Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

```
Router(config) #ip route 10.0.0.0 255.0.0.0 20.0.0.10
Router(config) #ip route 40.0.0.0 255.0.0.0 30.0.0.20
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
Router#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 [1/0] via 20.0.0.10
    20.0.0.0/8 is directly connected, Serial2/0
    30.0.0.0/8 is directly connected, Serial3/0
    40.0.0.0/8 [1/0] via 30.0.0.20
Router#
```

```
Router(config) #ip route 20.0.0.0 255.0.0.0 30.0.0.10
Router(config) #ip route 10.0.0.0 255.0.0.0 30.0.0.10
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 [1/0] via 30.0.0.10
    20.0.0.0/8 [1/0] via 30.0.0.10
   30.0.0.0/8 is directly connected, Serial2/0
    40.0.0.0/8 is directly connected, FastEthernet0/0
Router#
```

```
Router(config) #ip route 30.0.0.0 255.0.0.0 20.0.0.20
Router(config) #ip route 40.0.0.0 255.0.0.0 20.0.0.20
Router(config) #show ip route
% Invalid input detected at '^' marker.
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
Router#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
C 20.0.0.0/8 is directly connected, Serial2/0
    30.0.0.0/8 [1/0] via 20.0.0.20
    40.0.0.0/8 [1/0] via 20.0.0.20
Router#
```

```
PC>ping 40.0.0.1
Pinging 40.0.0.1 with 32 bytes of data:
Reply from 40.0.0.1: bytes=32 time=16ms TTL=125
Reply from 40.0.0.1: bytes=32 time=2ms TTL=125
Reply from 40.0.0.1: bytes=32 time=12ms TTL=125
Reply from 40.0.0.1: bytes=32 time=23ms TTL=125
Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 23ms, Average = 13ms

Bafna Gold -1 22-500ne-23 EXPERIMENT-3 AIM: Configuere défault oronte, statie route to the Router. To create a network with multiple occutions and two fieres. Topology single souter router 10.0.0.1 1 21 PT-PC multiple orouters. 20.0.0.20 20.0.0.10 20.0.0.20 10.0.0.10 ownter 40.0.0.10 30.0.0.10 PT-PC PT-PC 40.0.0.1

	Bafna Gold —
100	Princedure for multiple rouleus
	I do so rate at lately and
1.•	Place 2 PC-PT and 3 souter-PT's onto the logical
	Enterface
	Connect them with approprite cable. Use copper
	Cerossover Do connect PC-PT To scoulars and
	the sevial DCE to connect the signifers.
	Lype the IP address & lysteway to all the devices un config.
•	In CII (command line enterface) of
- Lin	each device and configure the IP address as
orto 1	well as "no shut" command to enable the
	Enterface and allow the gateway to communicate
721 = [which results in green light.
•	Drice all yateways and norter are green, the
	rente can be set en each resite to configue
Care	the unknown network 10's which will help in
7 100	norting the spaceds. This can be easily nonited
1 mm 1 m	or checked using the " show &p soute "command.
• 6	hing the respective and device in the command
	from 1st to chede the douber.
	OUTPUT BEFORE ROUTINGS:
	Pa > 10
-	PC > ping 40.0.0.1
	Po o and the second data:
	Pinging 40.0.0.1 with 32 boyts of data:
	Repfy from 10.0.0.10: Destination host unreachble.
	Robby from 10.0.0.00 10. Destination host unreachable
	Reply from 10.0.0.10: Destination host renseachable
	Reply from 10,0,0,0010: Destination hast renewachable
	Jan Lange Marketing

Peng estatishes for 40.0.0.1. Packets: Sent 4, Recievedo, host = 4 (100% 60% AFTER ROUTINGS: PC > Peng 40.0.0.1 Pinging 40.0.0.1 with 32 loyers of data: Reply from 40.0.0.1: loyers = 32 time = 16mg TTL=1 Reply from 40.0.0.1: loyers = 32 time = 2ms TTL= Reply from 40.0.0.1: loyers = 32 time = 2ms TTL= Reply from 40.0.0.1: loyers = 32 time = 2ms TTL= Reply from 40.0.0.1: loyers = 32 time = 23ms TTL= Reply from 40.0.0.1: loyers = 32 time = 23ms TTL= Reply from 40.0.0.1: loyers = 32 time = 23ms TTL= Reply from 40.0.0.1: loyers = 32 time = 23ms TTL= Reply from 40.0.0.1: loyers = 32 time = 23ms TTL= Reply from 40.0.0.1: loyers = 32 time = 23ms TTL= Reply from 40.0.0.1: loyers = 32 time = 23ms TTL= Reply from 40.0.0.1: loyers = 32 time = 23ms TTL= Reply from 40.0.0.1: loyers = 32 time = 20ms TTL= Rep		and times of them and party on the
PC > Peng 40.0.0.1 Pinging 40.0.0.1 with 32 begins of data: Reply from 40.0.0.1: begins 32 time = 16ms TIL-1 Reply from 40.0.0.1: begins 32 time = 12ms TIL-1 Reply from 40.0.0.1: begins = 32 time = 12ms TIL-1 Reply from 40.0.0.1: begins = 32 time = 23ms TIL-1 Ping estatistics for 40.0.0.1 Packets: Sent=4. Record = 4, Lost = 0 (61. 63s) Approximate enound trup trims in milli-second Minimum = 2ms, Maximum = 23ms, Average = 1		
PC > Peng 40.0.0.1 Pinging 40.0.0.1 with 32 septes of data: Reply from 40.0.0.1: laytes 32 time = 16m; TL=1 Reply from 40.0.0.1: laytes 32 time = 12ms TL=1 Reply from 40.0.0.1: laytes = 32 time = 12ms TL=1 Reply from 40.0.0.1: laytes = 32 time = 23ms TL=1 Ping istatistics for 40.0.0.1 Packets: Sent=4, Reclived = 4, Lost = 0 (6% tols) Approximate rentral trulp times in milli-second Minimum = 2ms, Maximum = 23ms, Average = 1	ita'	Packets: Sent 4, Recievedo, host = 4 (100% was
Pinging 40.0.0.1 with 32 begits of data: Reply sum 40.0.0.1: bytes=32 time=16ms TIL=1 Reply from 40.0.0.1: bytes=32 time=12ms TIL=1 Reply from 40.0.0.1: bytes=32 time=23ms TIL=1 Reply from 40.0.0.1: bytes=32 time=23ms TIL=1 Reply from 40.0.0.1: bytes=32 time=23ms TIL=1 Ping statistics for 40.0.0.1 Packets: sent=4, Recard=4, Lost=0 (61. wss Approximate ground trup times in milli-second Minimum=2ms, Maximum=23ms, Average=1	MAN	
Pinging 40.0.0.1 with 32 sectus of data: Reply from 40.0.0.1: laytes 32 time = 16mg TTL=1 Reply from 40.0.0.1: laytes=32 time = 12ms TTL=1 Reply from 40.0.0.1: laytes=32 time=12ms TTL=1 Reply from 40.0.0.1: laytes=32 time=23ms TTL=1 Reply from 40.0.0.1: laytes=32 time=23ms TTL=1 Ping statistics for 40.0.0.1 Packets: Sent=4; Reclad=4, Lost=0 (0% loss dapproximate suburd trup trimes in milli-second Minimum=2ms, Maximum=23ms, Average=1	and	
Reply from 40.0.0.1: laytes 32 time = 16ms TTL=1 Reply from 40.0.0.1: laytes 32 time = 12ms TTL=1 Reply from 40.0.0.1: laytes = 32 time = 12ms TTL= Reply from 40.0.0.1: laytes = 32 time = 12ms TTL= Reply from 40.0.0.1: laytes = 32 time = 12ms TTL= Reply from 40.0.0.1: laytes = 32 time = 23ms TTL= Ping estatistics for 40.0.0.1 Packets: sent=4, Reclived = 4, Lost = 0 (61. 65s) Approximate reputed truly trines in milli-second Minimum = 2ms, Maximum = 23ms, Average = 1		
Reply from 40.0.0.1: Paytes=32 time=16ms TTL=1 Reply from 40.0.0.1: Paytes=32 time=12ms TTL= Reply from 40.0.0.1: Paytes=32 time=12ms TTL= Reply from 40.0.0.1: Paytes=32 time=23ms TTL= Reply from 40.0.0.1: Paytes=32 time=23ms TTL= Ping statistics for 40.0.0.0.1 Packets: Sent=4. Reclaid=4, Lost=0 (0% 10.08) Approximate routed trup times in milli-second Minimum=2ms, Maximum=23ms, Average=1	30/1	
Reply from 40.0.0.1: bytes=32 time=16ms TIL=1 Reply from 40.0.0.1: bytes=32 time=12ms TIL= Reply from 40.0.0.1: bytes=32 time=12ms TIL= Roply from 40.0.0.1: bytes=32 time=23ms TIL= Ping statistics for 40.0.0.1 Packets: sent=4, Reclived=4, Lost=0 (61. 1033) Approximate routed trup times in milli-second Minimum=2ms, Maximum=23ms, Average=1.		
Reply from 40°0.0.1: bytes=32 time=12ms TIL- Raply grown 40°0.0.1: bytes=32 time=23ms TIL- Ping statistics for 40.0.0.1 Packets: Sent=4. Reclived=4, Lost=0 (61. 1088) Approximate rented trup times in milli-second Minimum=2ms, Maximum=23ms, Average=1	5 361	Reply forom 40.0.0.1: Loytes = 32 time = 16mg TIL=1
Roply Grom 40°0.0.1: bytes = 32 time = 23ms TIL- Ping statistics for 40.0.0.0.1 Packets: sent=4. Reclived = 4, Lost = 0 (6% loss approximate rentred trup times in milli-second Minimum = 2ms, Maximum = 23ms, Average = 1.	5.5	Reply from 40.0.0.1: bytes= 32 time = 2ms TTL=
Roply Grom 40°0.0.1: bytes = 32 time = 23ms TIL- Ping statistics for 40.0.0.0.1 Packets: sent=4. Reclived = 4, Lost = 0 (6% loss approximate rentred trup times in milli-second Minimum = 2ms, Maximum = 23ms, Average = 1.	-	Relphy from 40.0.0.1: Poutes=32 time = 12ms TTL=
Ping statistics for 40.0.0.0.1 Packets: sent=4, Reclived = 4, Lost = 0 (6% loss deposition of events truly times in mille-second Minimum = 2ms, Maximum = 2 ms, Average = 1.	15	Roply from 40.0.0.1: bytes = 32 time = 23ms TTL-
Packets: Sent=4, Reclived = 4, Lost = 0 (61. loss Approximate reputred trup trings un milli-second Minimum = 2ms, Maximum = 23ms, Average = 1.	37	more than the supplemental martine and
Packets: Sent=4, Reclived = 4, Lost = 0 (61. loss Approximate rounted trup trings un milli-second Minimum=2ms, Maximum=23ms, Average=1	poit	Po to take the any 40 MM and and and
Minimum = 2ms, Maximum = 23ms, Average = 1.	0.11	Uma shartshus you to to to
Conque to 10.0.0.10: Activation hast arread	No I	Approximate rentred trup times in milli-second
Congres 40.0.0.0.1 worth so heart of the is to the standard or word so heart so heart so word so the standard so heart so word so heart so	22	Packets: sent=4, Reclived =4, Lost = 0 (6% loss deporoximate reputed trulp times in milli-second Minimum = 2ms, Maximum = 23ms, Average =1;
Cinquig 40.0.0.1 upth 20 hours of the in well of the survey of the standard of the survey of the standard of the survey of the standard of the survey of the	72	Packets: sent=4, Reclived =4, Lost = 0 (6% loss Approximate rentred trup times in milli-second Minimum = 2ms, Maximum = 23ms, Average =1;
Law me track metalitisch : 01.0.0.01 mont upt) Law track northantisch : 01.0.0.01 mont upt ? Law track northantisch : 01.0.0.01 mont upt ?	22/	Packets: sent=4, Reclived =4, Lost = 0 (6% loss Approximate rentred trup times in milli-second Minimum = 2ms, Maximum = 23ms, Average =1;
Robert Score 10.000 100 Berlington hast were	22	Packets: sent=4, Reclived =4, Lost = 0 (6% loss Approximate rentred trup times in milli-second Minimum = 2ms, Maximum = 23ms, Average =13
Early from 10.000 10: Building the hist when	22	Packets: Sent=4, Reclived =4, Lost = 0 (6% loss deportoxismate reported trulp times in milli-second Minimum = 2 ms, Maximum = 23 ms, Average =13
Robin from 10.00.0.10: Delinition has a record	23/	Packets: sent=4, Reclived =4, Lost = 0 (6% loss Approximate rentred trulp times in milli-second Minimum = 2ms, Maximum = 23ms, Average =1:
1 2 2 10 12 14 20 21 4 3 3	22	Packets: sent=4, Reclived =4, Lost = 0 (61. loss Approximate rentral trup times in milli-second Minimum = 2ms, Maximum = 23ms, Average =1:
BOTH WAY LEAST TOTAL TOTAL OF THE PARTY OF T	22	Packets: Sent=4, Reclived = 4, Lost = 0 (o'l. 1088) Approximate reputed truly times in milli-second Minimum = 2ms, Maximum = 23ms, Average = 1:
	92	Packets: Sent=4, Reclived = 4, Lost = D (81. loss Apperoximate rentred trulp times in milli-second Minimum = 2ms, Maximum = 23ms, Average = 1:
	92	Packets: Sent=4, Reclived = 4, Lost = D (81. loss Apperoximate rentred trulp times in milli-second Minimum = 2ms, Maximum = 23ms, Average = 1: