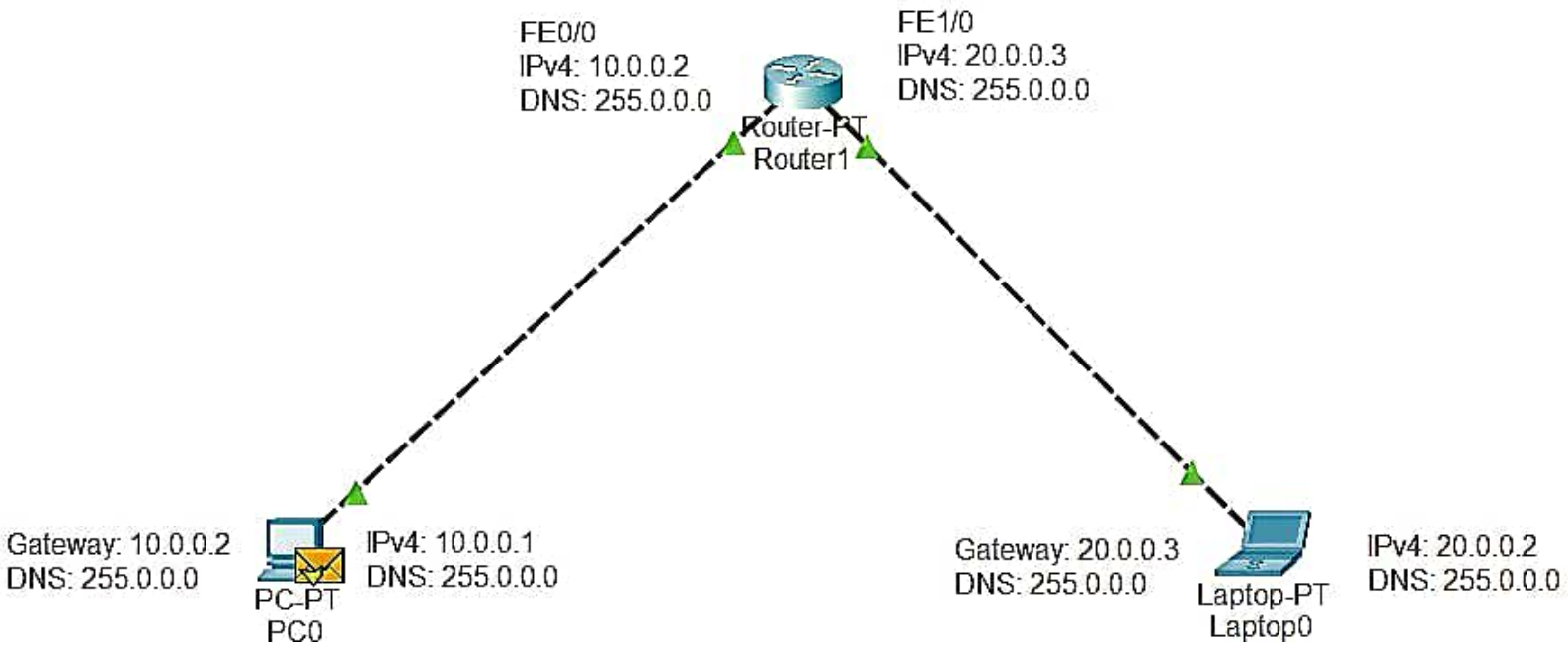

FE0/0
IPv4: 10.0.0.2
DNS: 255.0.0.0
FE1/0
IPv4: 20.0.0.3
DNS: 255.0.0.0
Router-PT
Router1
Gateway: 10.0.0.2
DNS: 255.0.0.0
IPv4: 10.0.0.1
DNS: 255.0.0.0
PC-PT
PC0
Gateway: 20.0.0.3
DNS: 255.0.0.0
Laptop-PT
Laptop0
IPv4: 20.0.0.2
DNS: 255.0.0.0

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	Laptop0	ICMP		0.000	N	0	(edit)	
	In Progress	PC0	Laptop0	ICMP		0.000	N	1	(edit)	
	In Progress	PC0	Laptop0	ICMP		0.000	N	2	(edit)	

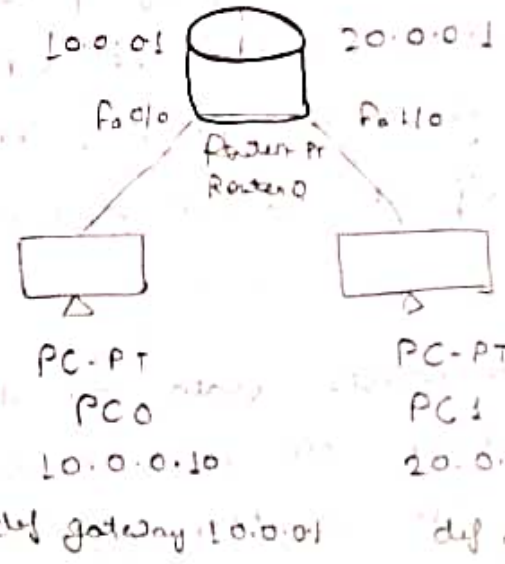
```
C:\>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time=9ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time=1ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128

Ping statistics for 10.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 9ms, Average = 2ms
```

Lab-2

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

Aim :- To create a network consisting of 2PC connected to a router. This connection will help observe the behaviour of data transmission using router.

Topology :-



1. PC0 : connected to router's interface Fa 0/0 using a cross-over scale.

   IP address : 10.0.0.10

   default gateway : 10.0.0.1

2. PC1 : Connected to the router's interface Fa 1/0 using a cross over scale.

   IP address : 20.0.0.10

   default Gateway : 20.0.0.1

3. Router:

   Interface Fa 0/0 connected to PC0

   Interface Fa 1/0 connected to PC1

   IP address of Fa 0/0 : 10.0.0.1

   IP address of Fa 1/0 : 20.0.0.1.

Observation

1. Ping Results: The 2 PCs are connected to each other

slow

2. 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
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

C 10.0.0.0/8 is directly connected FastEthernet0
C 20.0.0.0/8 is directly connected FastEthernet1/0

Procedure:-

1. Two PC are selected, PC0 and PC1
2. A generic router is selected
3. The two PCs and router are connected using copper-cross over
4. It is labelled with the gateway and IP address
5. Procedure is executed in Realtime mode in order to do PINGs.

6. After the Router is configured CLI the connection from red to green indicating that the router is configured and connection is established

7. then you PING PC0 to PC1 and PC1 to PC0.

N
9/10/24