Aim-2

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

Topology:

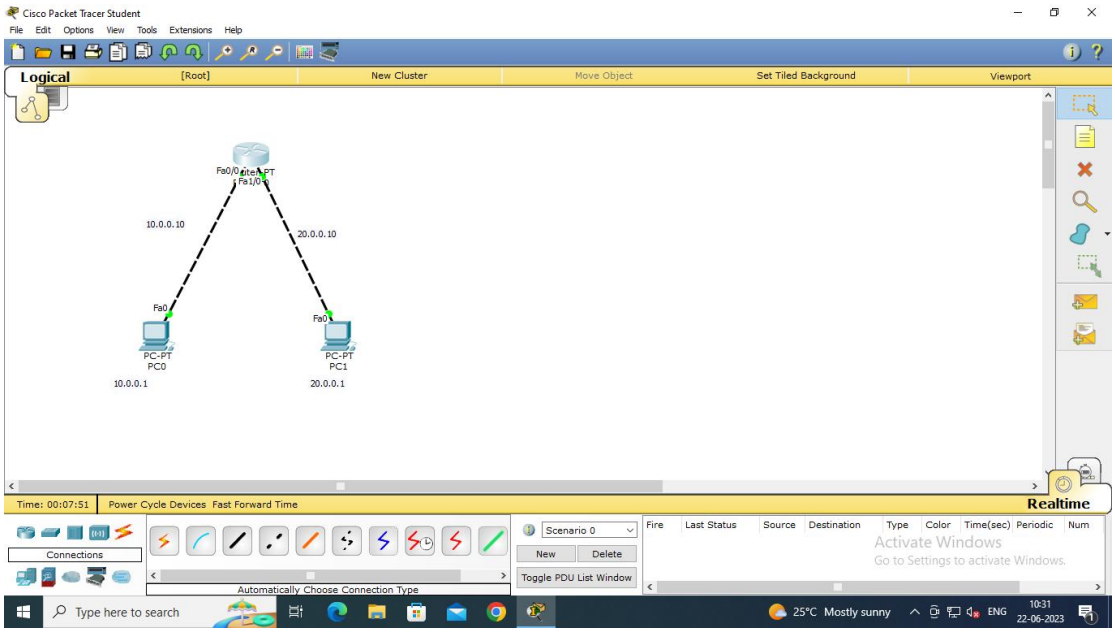


Fig 1: Topology

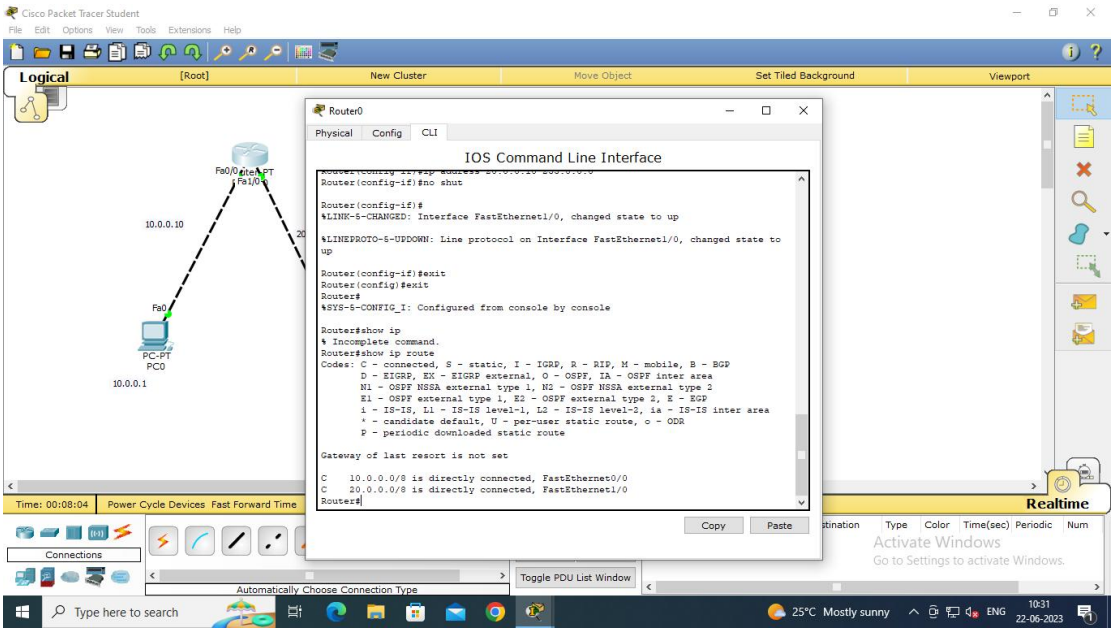


Fig 2: Router showing its connections after configuration

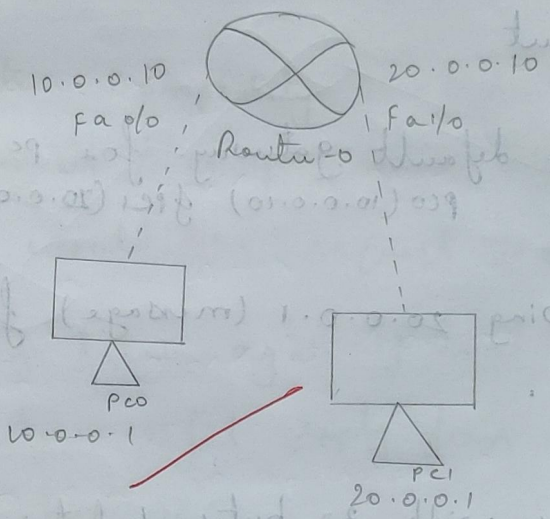
Procedure and Observation:

22/06/23

Aim - 2

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

Topology



Procedure:

=> Configuring the IP address of two PC's i.e; PC0 (10.0.0.1) & PC1 (20.0.0.1).

=> Configuring the 1st part of router
-> en
-> enable

-> config t
-> interface fastethernet 0/0
-> ip address 10.0.0.10 255.0.0.0
-> no shut
-> exit

=> Configuring the other port of router
-> interface fastethernet 1/0
-> ip address 20.0.0.10 255.0.0.0
-> no shut
-> exit

-> configuring default gateway for pc's i.e; pc0 (10.0.0.10) & pc1 (20.0.0.10)

Output

-> Passing ping 20.0.0.1 (message) from pc0 to pc1.

Response

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

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 = 0ms, Average = 0ms.

-> If try pinging message without setting default gateway the reply would be "destination unreachable".

-> After completely configuring if you get a If tried pinging again the 1st reply would be "request timed out".

-> Then later again if tried will get the successful reply from source to destination pcs.

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Output:

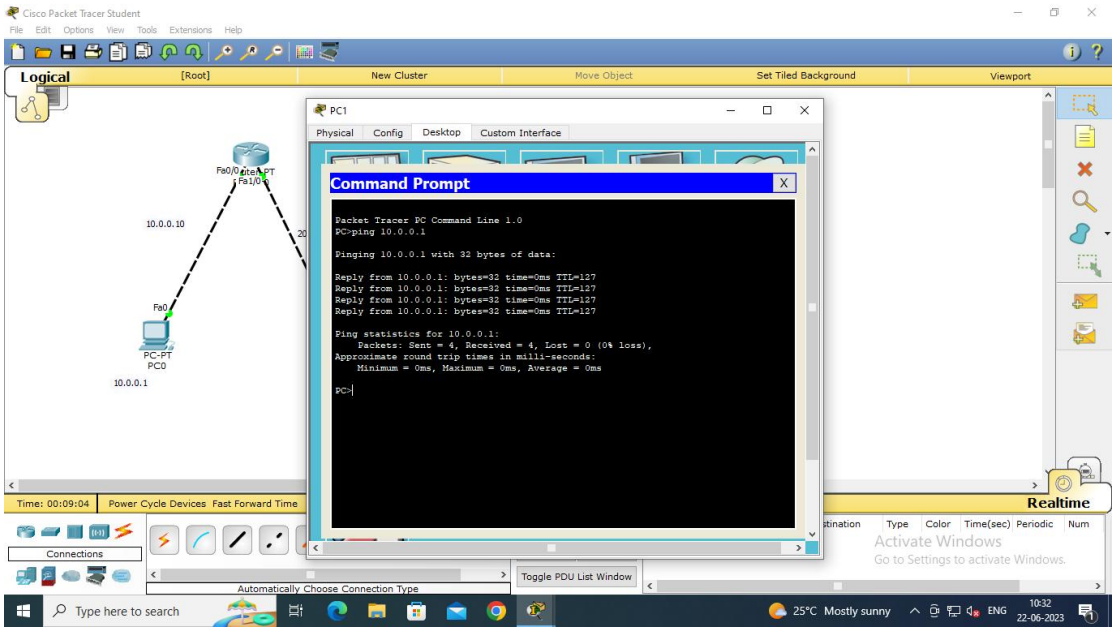

Fig 3: Pinging from pc1 to pco

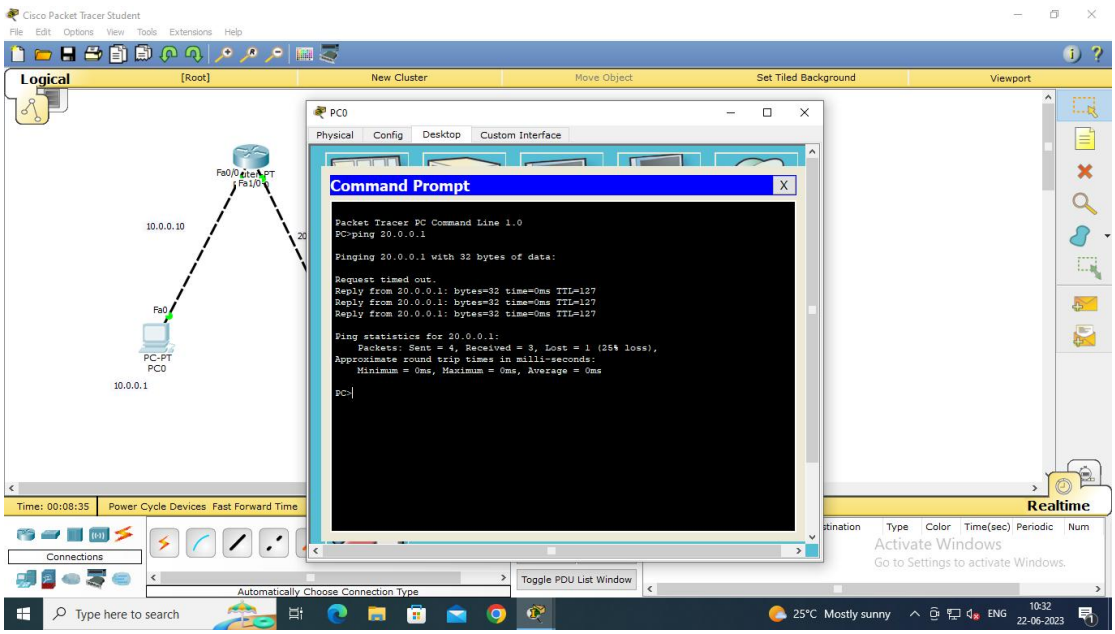

Fig 4: Pinging from pc0 to pc1