no
router
enable

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Lab 2

Connect 2 devices with router. Configure source and destination address.
Configure IP address to Routers in Packet Tracer.
Explore the following messages: Ping Responses, Destination unreachable, Request Timed Out, Reply.

Interface
Normal PCs have only 1 interface.

Source		destination	
ip	10.0.0.10	ip	20.0.0.20
gateway	10.0.0.1	gateway	20.0.0.1

ICMP → Network layer.

ipconfig
ping

ttl → time to leave

Configure router
Click on router → Click CLI → no → enable.
→ configure terminal
→ interface of PC0 and Router 0.
fastethernet for PC0
→ ip address ___ ___
→ no shutdown
→ exit.
configure:- fa0/0 and fa0/1

★ Outcomes:
* Interface is a shared boundary across which 2 or more separate components of a computer system exchange information.
* Gateway address is specified to indicate that your information has to pass through that gateway

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For every PC interface address must be gateway address.

What is ping network?
→ To determine whether there is a connection.

* Ping is a ICMP packet. Ping is a command to see destination IP address is alive or not. If interface is alive, we get reply.
→ ttl → Time to live is amount of time a packet is set to exist inside a network before being discarded by a router.

* Created a network topology using 2-PCs & a router as connecting device.
* Configured default gateway & IP address.
* Made a ping to see if destination IP address is alive or not. If interface is alive, we get reply.
* Did a simulation by sending a simply PDU from source to destination for ICMP protocol.
* TTL indicates the max no. of nodes it can pass through before reaching destination.