Experiment 11 Simulate Static Routing Configuration using Cisco Packet Tracer and IP.

9/10/25

Aim:-
To simulate the RIP using Cisco packet tracer.

Assign IP address to PCs double click PCs and click desktop more item and click IP configuration assign IP address refering the above table.

Assign IP address to interfaces of routers:
Double click Router 0 and click CLI and press enter key to access the command prompt of Router 0.

Router > enable
router # config terminal
Enter config commands, one per line. end with CNTL/Z.
Router (config) #
interface fastethernet 0/0 command is used to enter in interface mode.
IP address 10.0.0.1 255.0.0.0 command will assign IP address to interface.
no shutdown command will bring the interface up.

Exit command is used to return in global configuration mode. Serial interface needs two additional parameter clock rate and bandwidth: Every serial Cable has two ends DTE and DCE

router > enable

router # configure terminal

enter configuration commands, one per line. End with CNTL/Z

router (config) # interface serial 0/0/0

router (config-if) # ip address 192.168.1.25 255.255.255.252

router (config-if) # no shutdown

router (config-if) # exit

router (config) # interface serial 0/0/1

router (config-if) # ip address 192.168.1.246 255.255.255.252

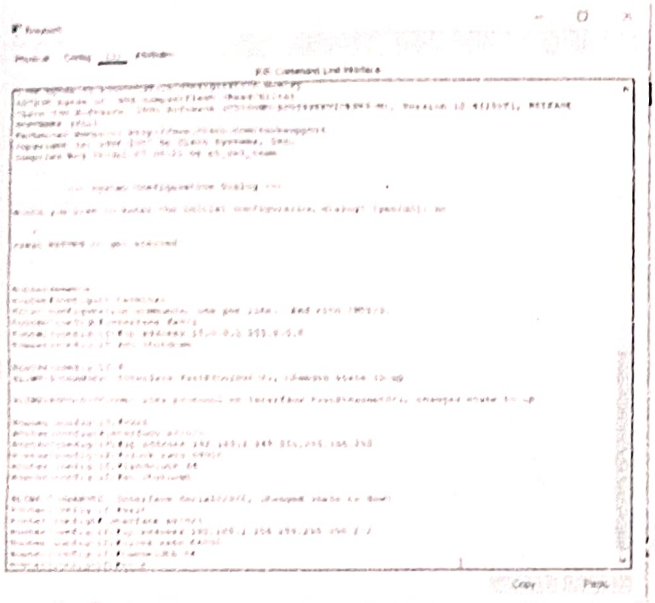
router (config-if) # clock rate 64000

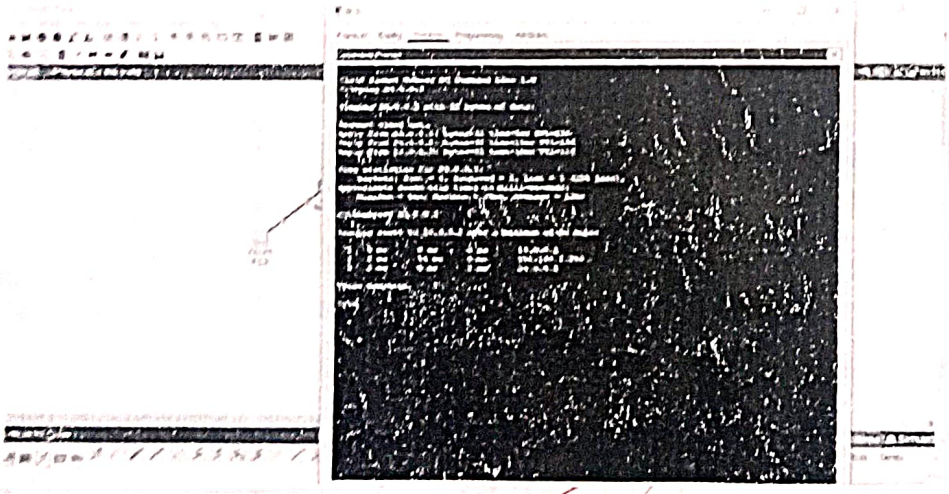
router (config-if) # bandwidth 64

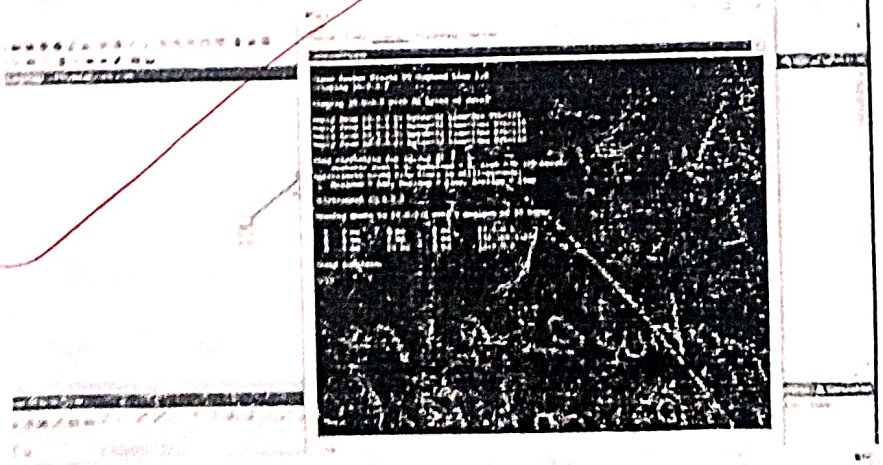
router (config-if) # no shutdown

router (config-if) # exit

By default RIP will use the route that has low hops counts between source and destination. In and network route has lowest hops counts so it be selected we can use tracert command to verify it.







Result:

Thus the above experiment is successfully completed and executed.