COMPUTER NETWORKS

PRACTICUM 2

By:

ARIA WIDIYO NOVIYANTO

NIM: L200183043

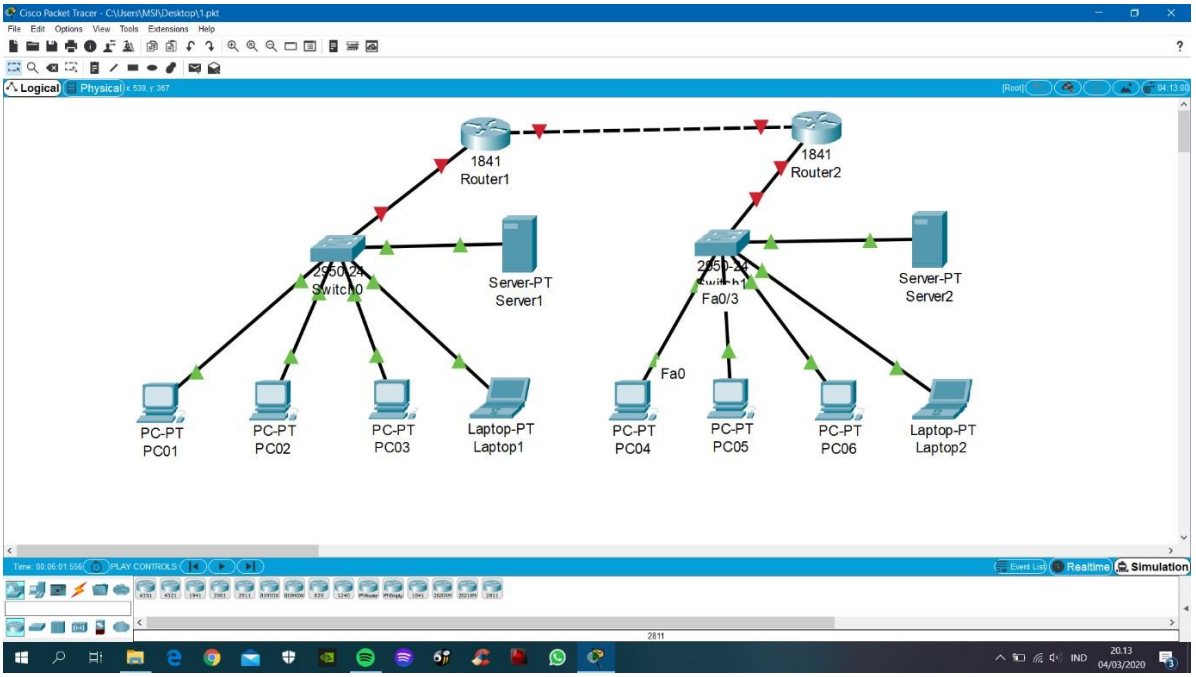
INFORMATION TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATICS

UNIVERSITY OF MUHAMMADIYAH SURAKARTA

2020

1. **Activities 1**



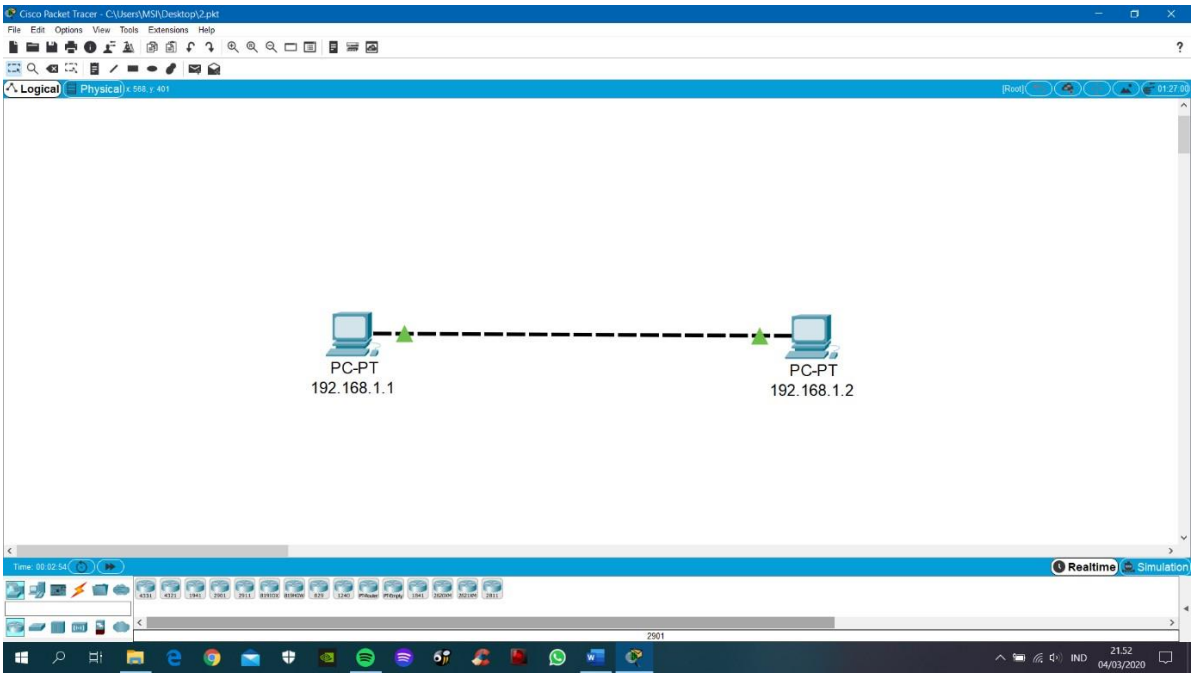
Question

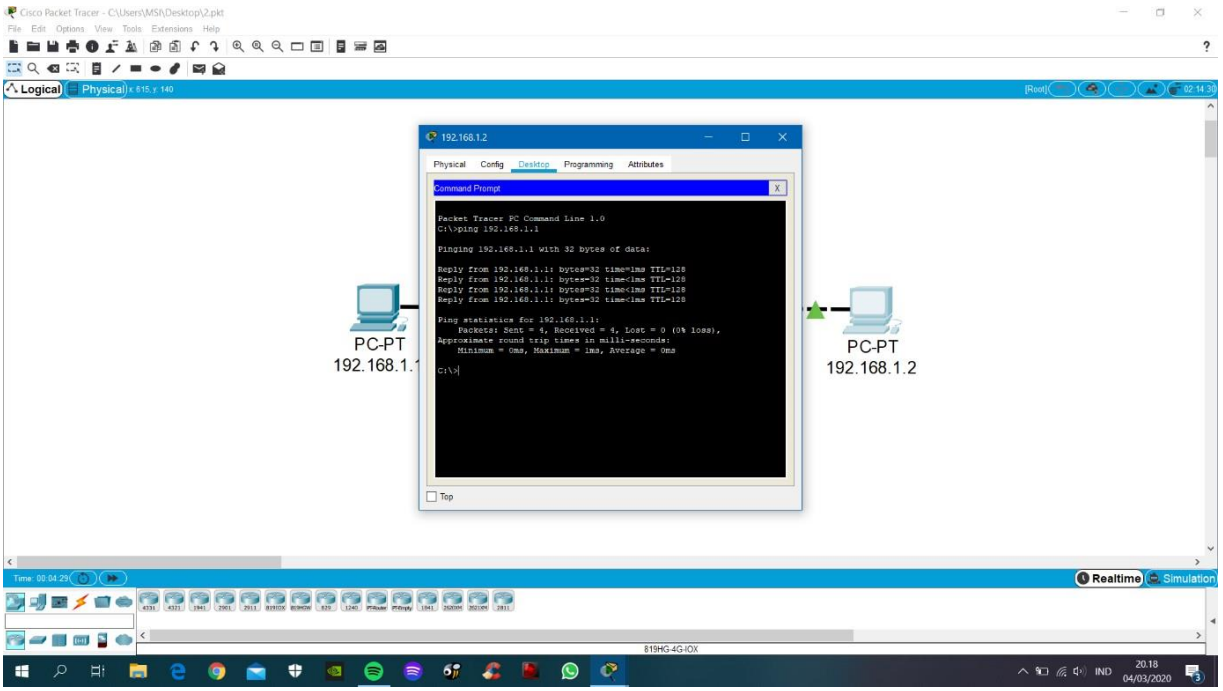
Observe the indicator lights at each point. then explain!

Answer:

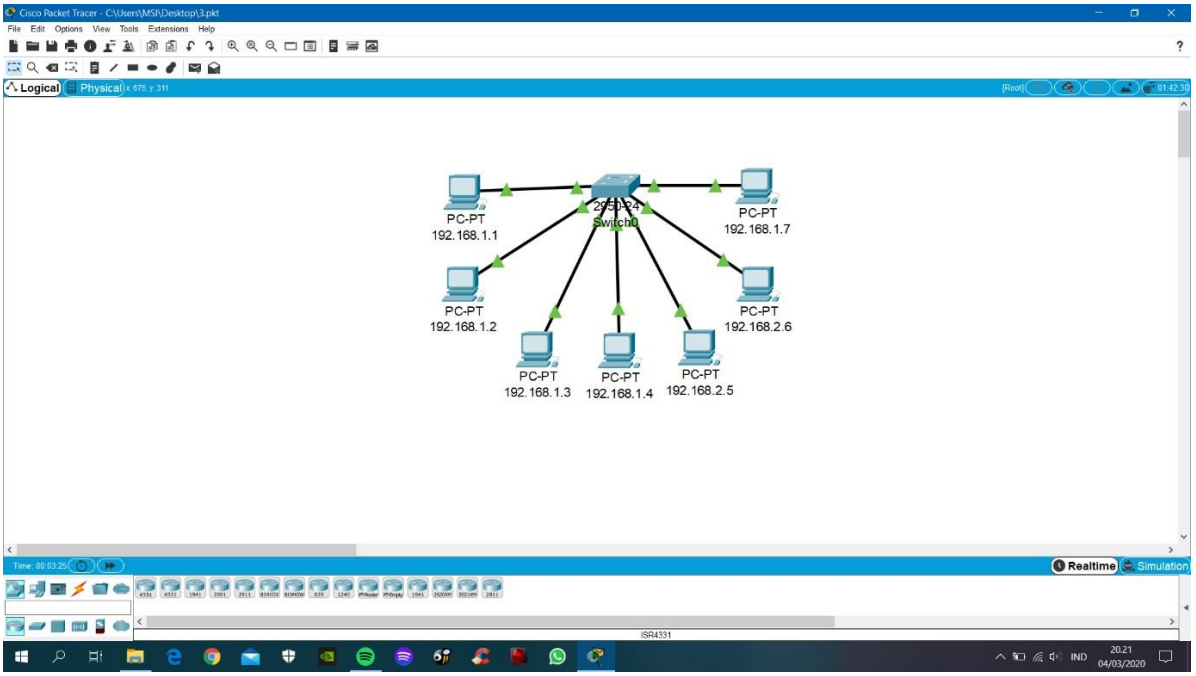
- In Router 1 with Router 2 a cable error or cable cable was not connected.
- Between the Router and the Switch cable error also occurs or the cable is not connected.
- Whereas the Switch with Server, PC, and Laptop (End Device) shows that the cable has successfully connected devices to one another.

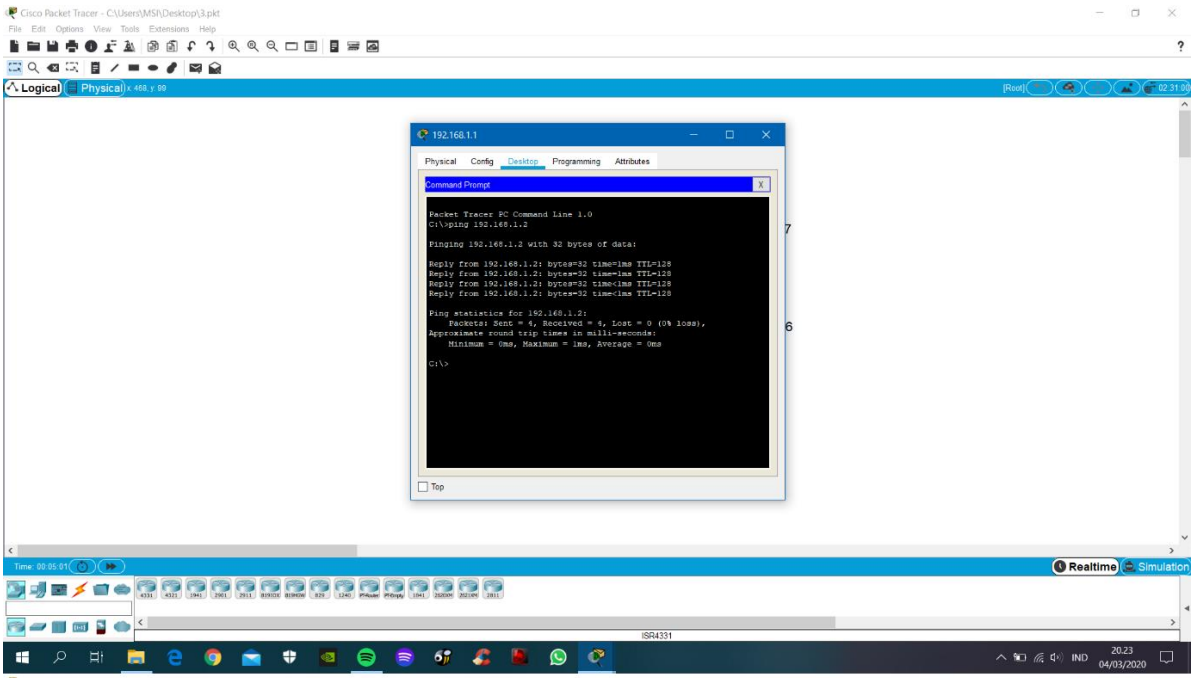
2. **Activities 2**

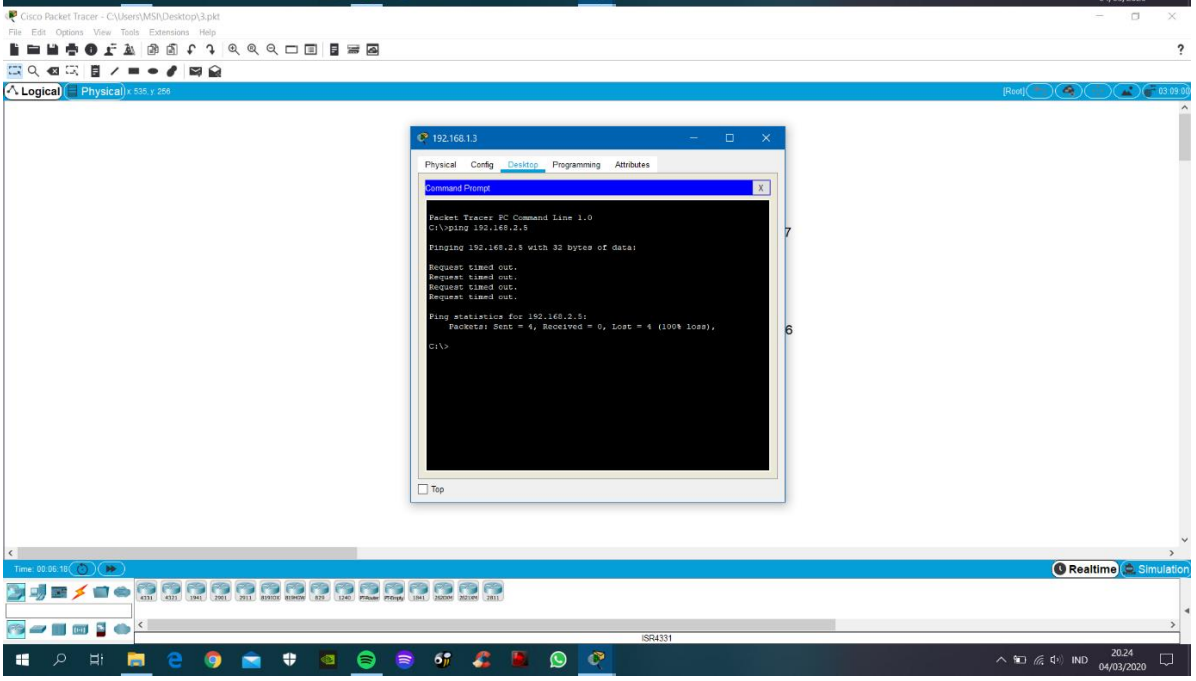




3. Activities 3







Question

Ping between:

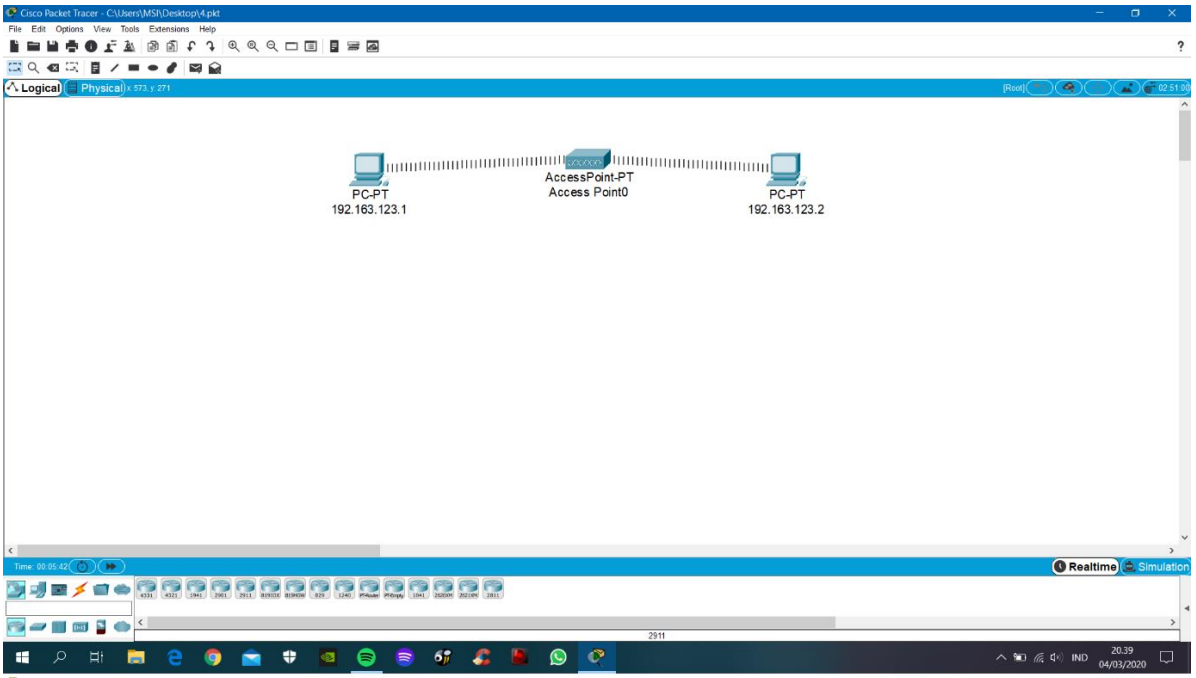
a. PC1 to PC2

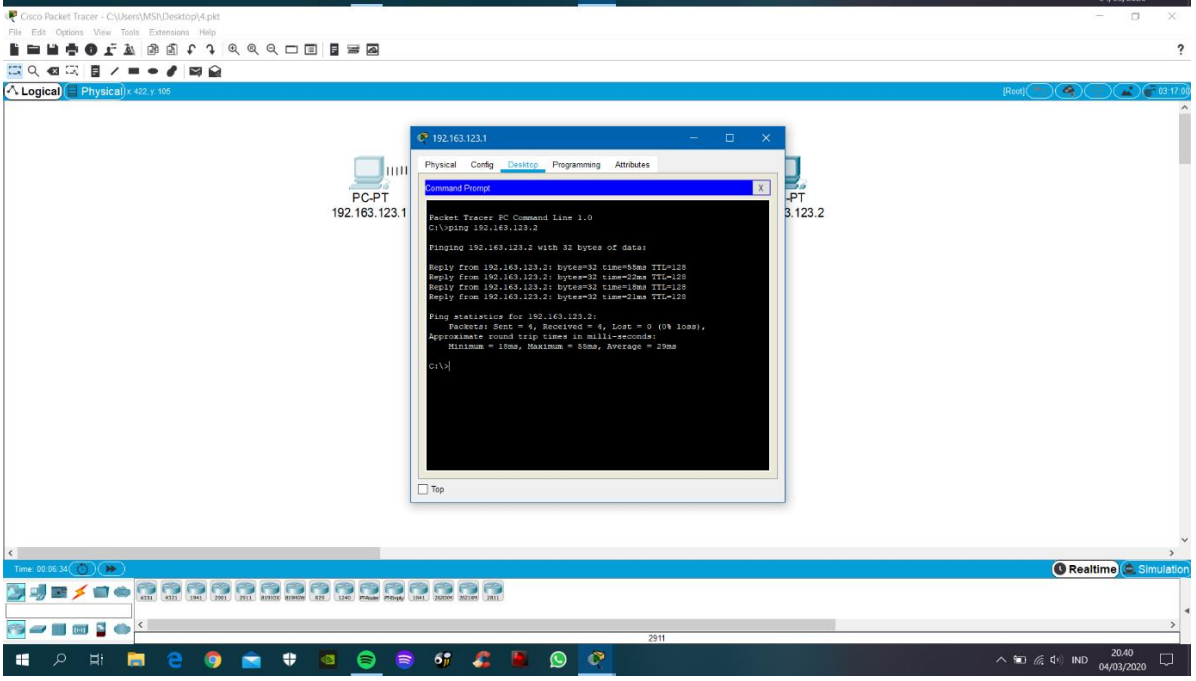
b. PC3 to PC5

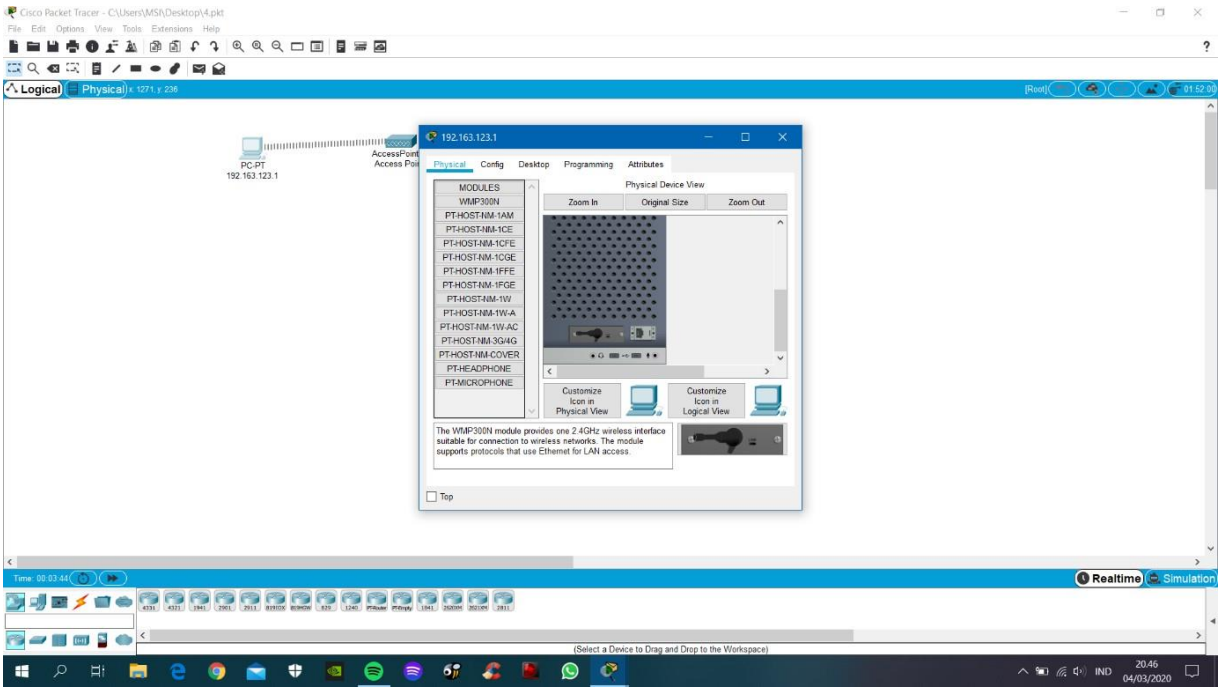
Answer:

- At the time of pinging between PC1 to PC2 what happens is PC1 plays back what is in PC2.
- When pinging PC3 to PC5 what happens is that PC3 can't play PC5 but times out.

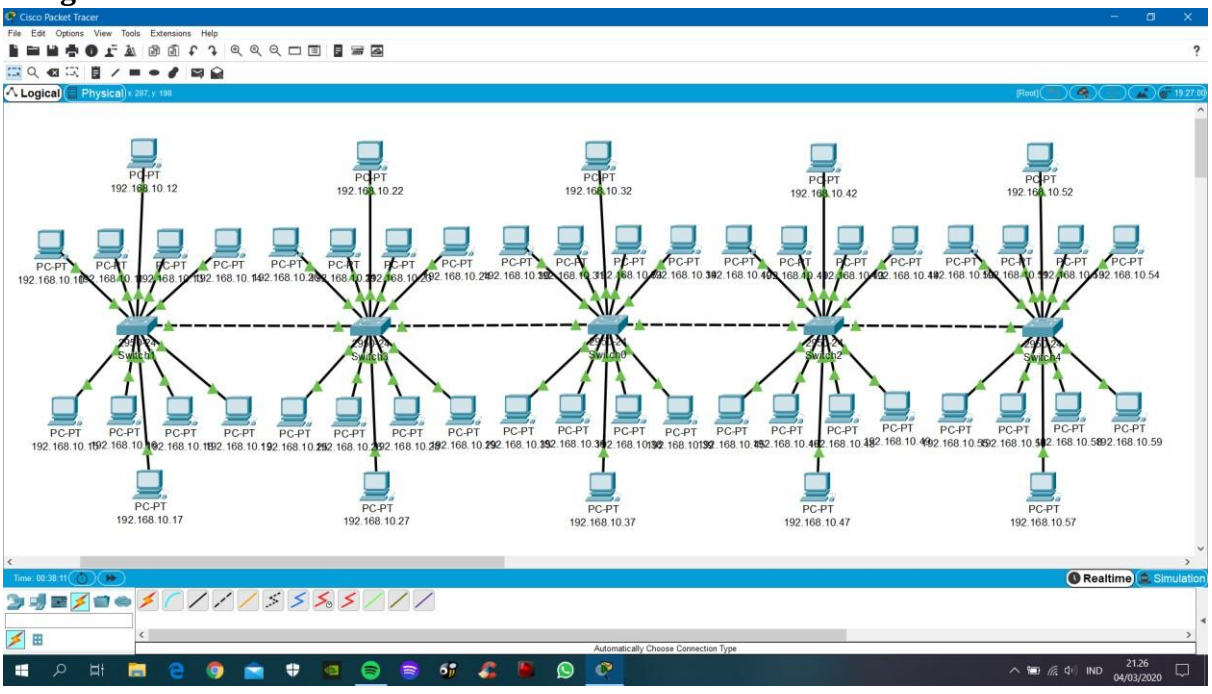
4. Activities 4

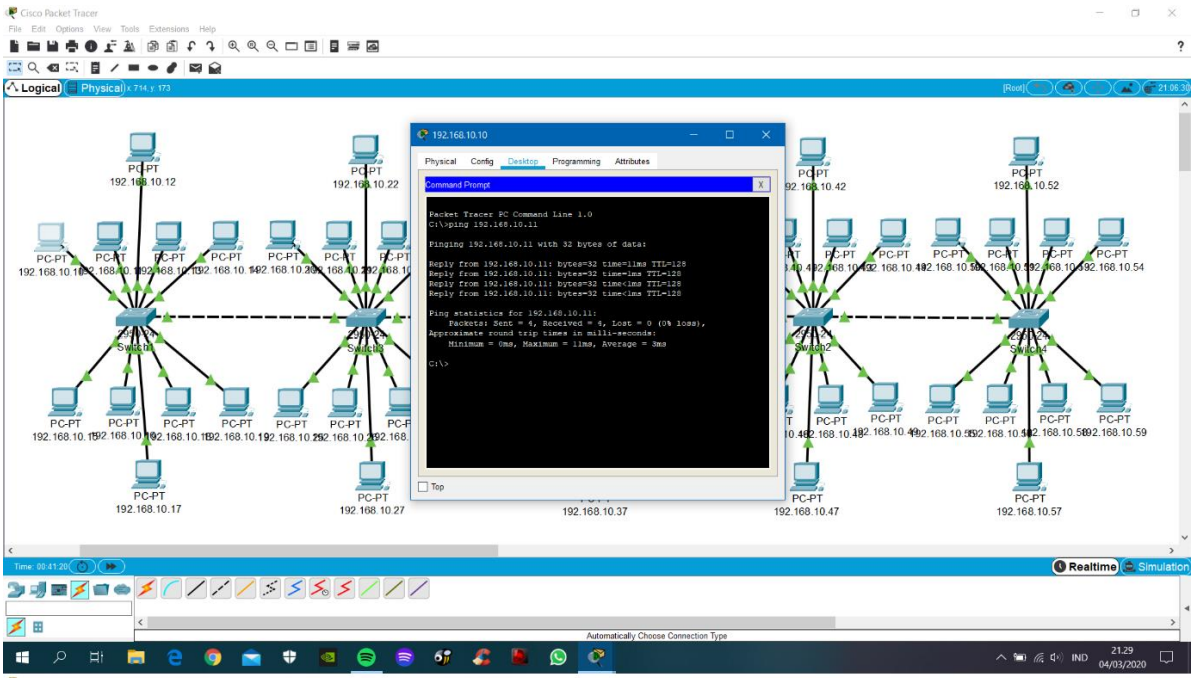

Cisco Packet Tracer - C:\Users\MSI\Desktop\4.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
PC-PT
192.163.123.1
AccessPoint-PT
Access Point0
PC-PT
192.163.123.2
Realtime
Simulation
2911
IND
20.39
04/03/2020

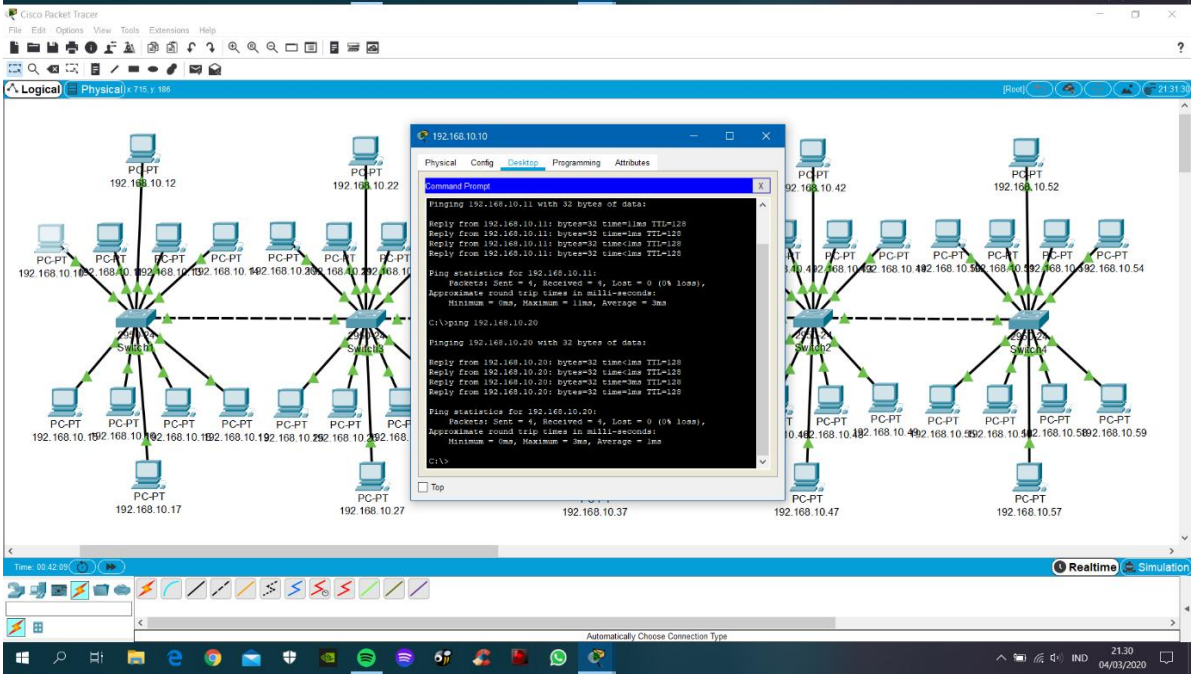

Cisco Packet Tracer - C:\Users\MSI\Desktop\4.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
192.163.123.1
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.163.123.2
Pinging 192.163.123.2 with 32 bytes of data:
Reply from 192.163.123.2: bytes=32 time=55ms TTL=128
Reply from 192.163.123.2: bytes=32 time=22ms TTL=128
Reply from 192.163.123.2: bytes=32 time=18ms TTL=128
Reply from 192.163.123.2: bytes=32 time=21ms TTL=128
Ping statistics for 192.163.123.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 18ms, Maximum = 55ms, Average = 29ms
C:\>
Top
PC-PT
192.163.123.1
Realtime
Simulation
2911
IND
20.40
04/03/2020

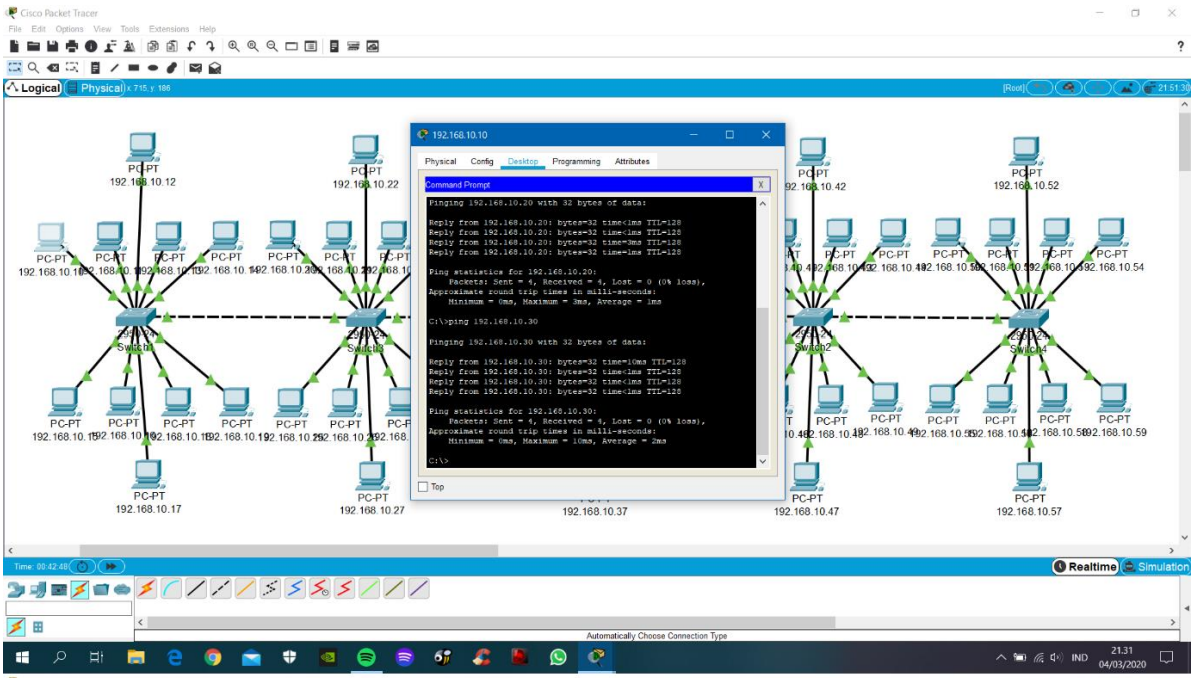


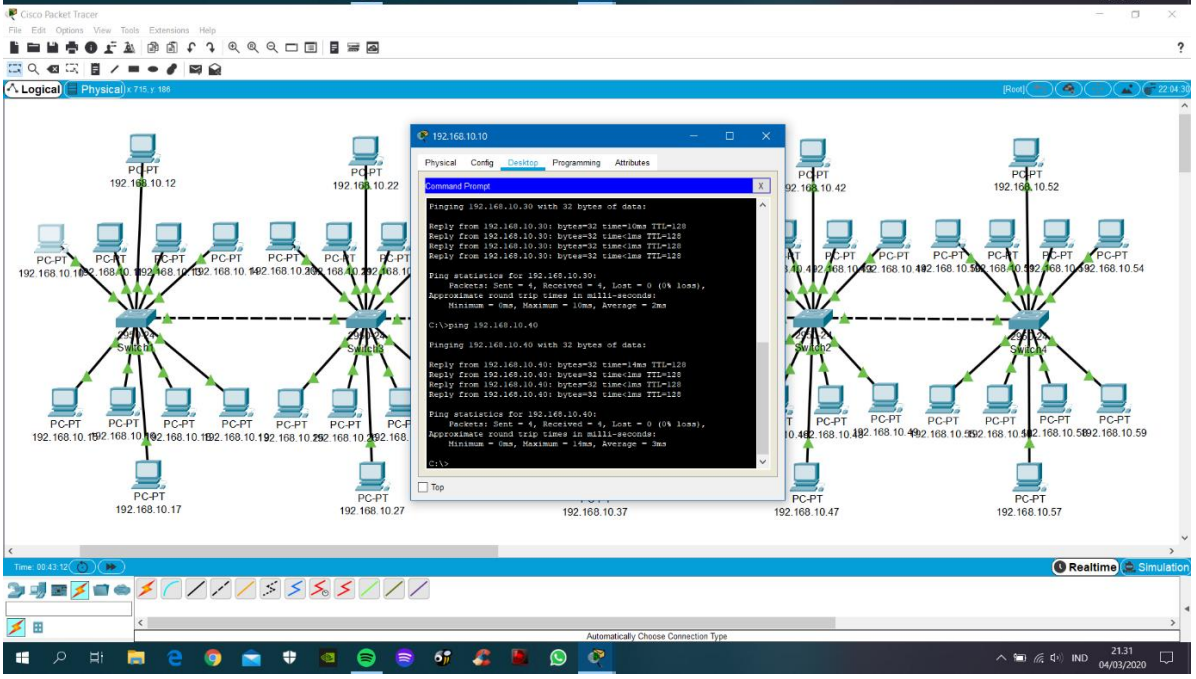
5. Assignment

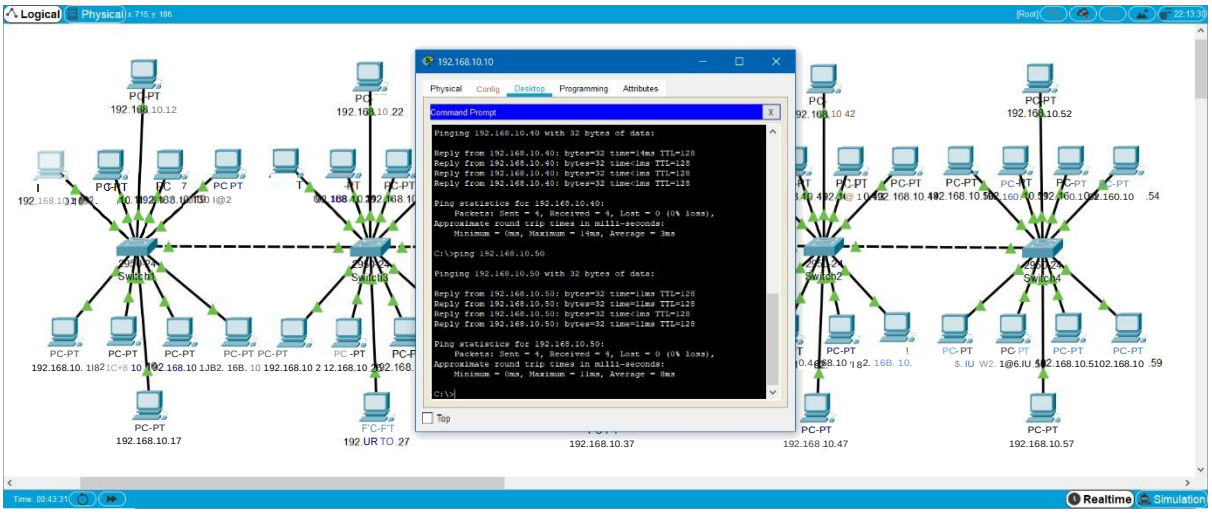



Cisco Packet Tracer
Logical
Physical
192.168.10.10
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.11
Pinging 192.168.10.11 with 32 bytes of data:
Reply from 192.168.10.11: bytes=32 time=1ms TTL=128
Reply from 192.168.10.11: bytes=32 time=1ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.11:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
Top
PC-PT
Switch0
Switch1
Switch2
Switch3
Switch4
Realtime
Simulation
Automatically Choose Connection Type
IND
21.29
04/03/2020


Cisco Packet Tracer
Logical
Physical
192.168.10.10
Physical Config Desktop Programming Attributes
Command Prompt
Pinging 192.168.10.11 with 32 bytes of data:
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.11:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 192.168.10.20
Pinging 192.168.10.20 with 32 bytes of data:
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time=3ms TTL=128
Reply from 192.168.10.20: bytes=32 time=1ms TTL=128
Ping statistics for 192.168.10.20:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 1ms
C:\>
Top
PC-PT
Switch0
Switch1
Switch2
Switch3
Switch4
Realtime
Simulation
Automatically Choose Connection Type
IND
21.30
04/03/2020


Cisco Packet Tracer
Logical
Physical
192.168.10.10
Physical Config Desktop Programming Attributes
Command Prompt
Pinging 192.168.10.20 with 32 bytes of data:
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time<1ms TTL=128
Reply from 192.168.10.20: bytes=32 time=3ms TTL=128
Reply from 192.168.10.20: bytes=32 time=1ms TTL=128
Ping statistics for 192.168.10.20:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 1ms
C:\>ping 192.168.10.30
Pinging 192.168.10.30 with 32 bytes of data:
Reply from 192.168.10.30: bytes=32 time=10ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.30:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 10ms, Average = 2ms
C:\>
Top
Realtime
Simulation
Automatically Choose Connection Type
IND
21.31
04/03/2020


Cisco Packet Tracer
Logical
Physical
192.168.10.10
Physical Config Desktop Programming Attributes
Command Prompt
Pinging 192.168.10.30 with 32 bytes of data:
Reply from 192.168.10.30: bytes=32 time=10ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128
Reply from 192.168.10.30: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.30:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 10ms, Average = 2ms
C:\>ping 192.168.10.40
Pinging 192.168.10.40 with 32 bytes of data:
Reply from 192.168.10.40: bytes=32 time=14ms TTL=128
Reply from 192.168.10.40: bytes=32 time<1ms TTL=128
Reply from 192.168.10.40: bytes=32 time<1ms TTL=128
Reply from 192.168.10.40: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.40:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 14ms, Average = 3ms
C:\>
Top
Realtime
Simulation
Automatically Choose Connection Type
IND
21.31
04/03/2020


Logical
Physical
192.168.10.10
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Pinging 192.168.10.40 with 32 bytes of data:
Reply from 192.168.10.40: bytes=32 time=14ms TTL=128
Reply from 192.168.10.40: bytes=32 time<1ms TTL=128
Reply from 192.168.10.40: bytes=32 time<1ms TTL=128
Reply from 192.168.10.40: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.40:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 14ms, Average = 3ms
C:\>ping 192.168.10.50
Pinging 192.168.10.50 with 32 bytes of data:
Reply from 192.168.10.50: bytes=32 time=11ms TTL=128
Reply from 192.168.10.50: bytes=32 time=11ms TTL=128
Reply from 192.168.10.50: bytes=32 time<1ms TTL=128
Reply from 192.168.10.50: bytes=32 time=11ms TTL=128
Ping statistics for 192.168.10.50:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 11ms, Average = 8ms
C:\>
Top
PC-PT
192.168.10.12
192.168.10.17
192.168.10.37
192.168.10.47
192.168.10.52
192.168.10.57
Switch2
Switch3
Switch4
Realtime
Simulation
Automatically Choose Connection Type