PRACTICUM SYSTEM OPERATION

MODUL 1

SYSTEM OPERATION

By :

Donny Rizal Adhi Pratama

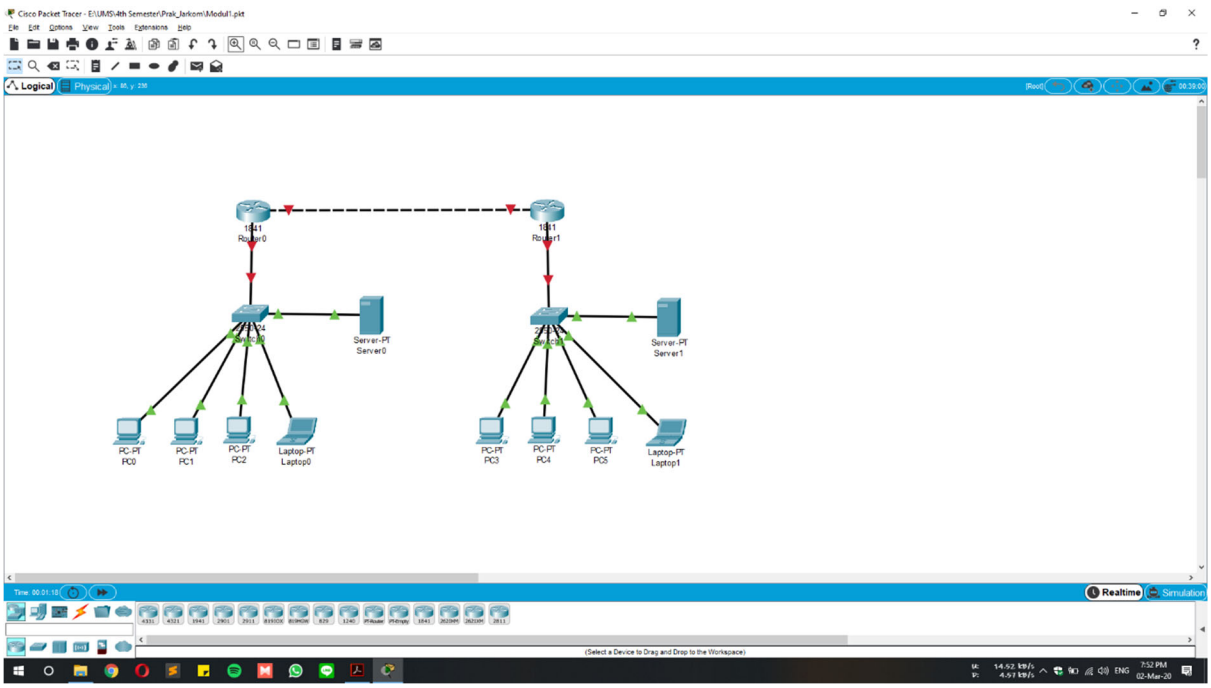
L200183161

INFORMATION TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATIC

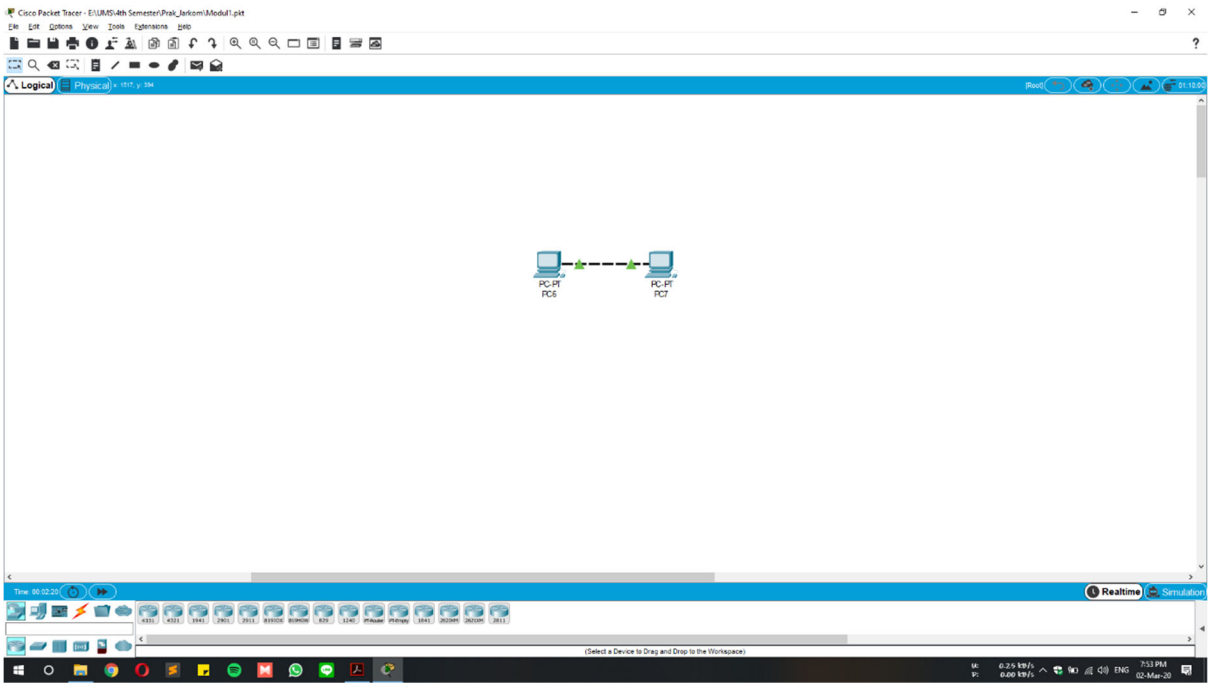
MUHAMMADIYAH UNIVERSITY OF SURAKARTA

#1



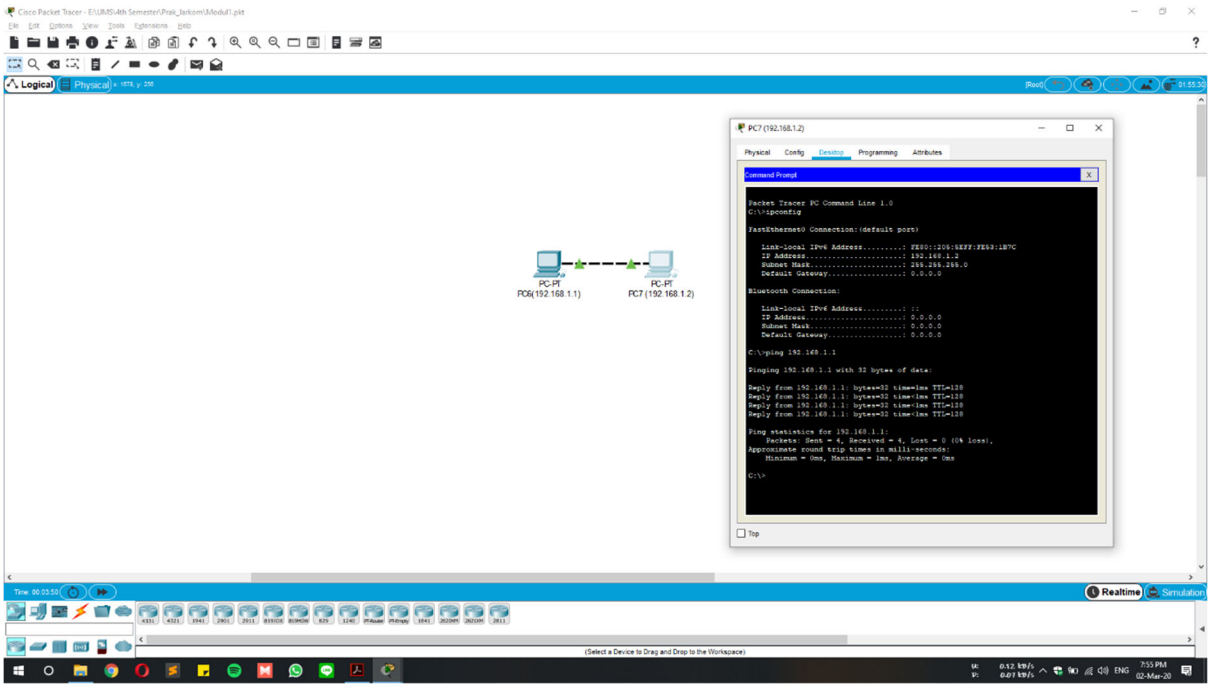
- Router0 and Router1 cant be connected at the moment, there is an error over there
- Between Router and Switch there is an error.
- The end devices (Server, Laptop, PC, Switch) can be connected each other.

#2 (Peer-to-Peer)

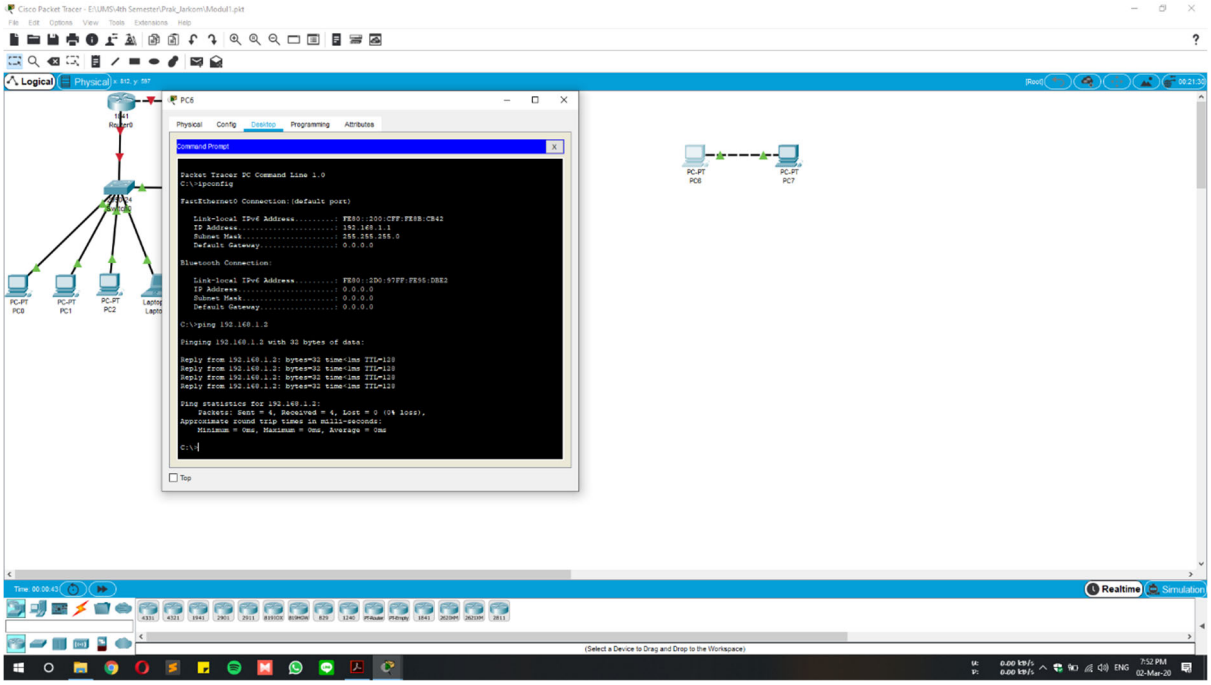


Pict 2. Peer-to-Peer 192.168.1.1 to 192.168.1.2

Give the IP Address = 192.168.1.1/24 at PC6 dan PC7 = 192.168.1.2/24

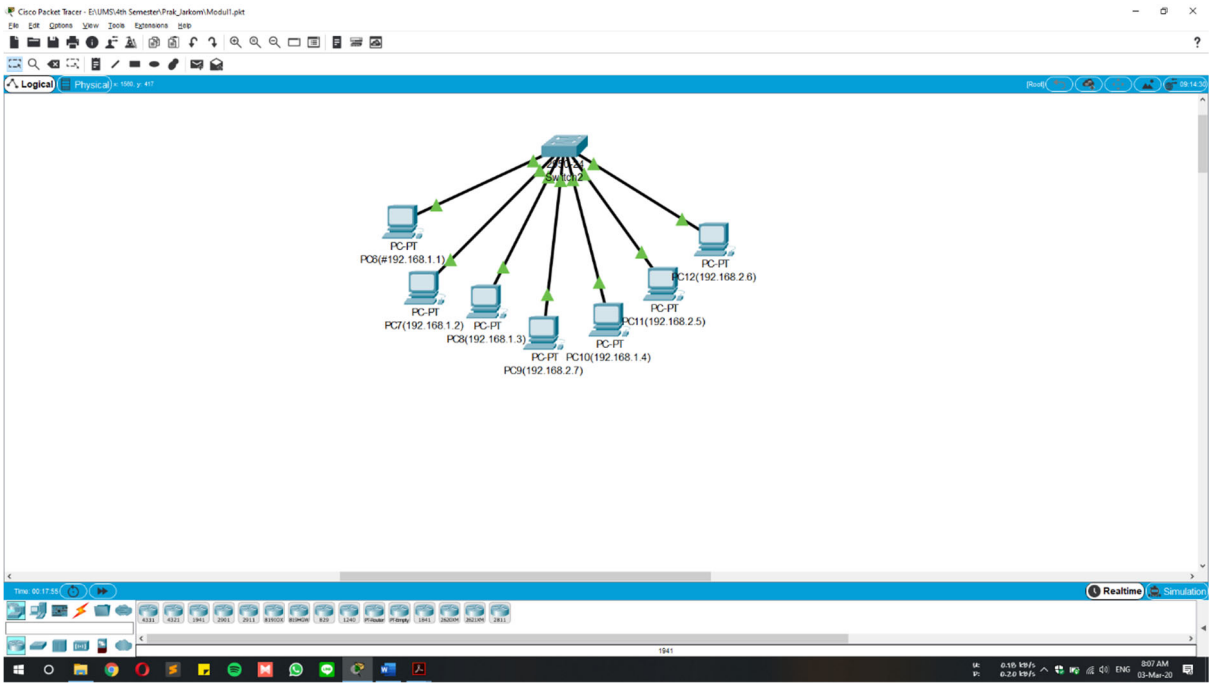


Pict 3. CMD Ipconfig and Ping at PC7(192.168.1.2)



Pict 4. CMD Ipconfig and Ping at PC6(192.168.1.1)

#3 (Create Switch Network)



Pict 5. Switch Network

Create the Network Design as the pict above also the IP Address

PC6 = 192.168.1.1 PC10 = 192.168.1.4

PC7 = 192.168.1.2 PC11 = 192.168.2.5

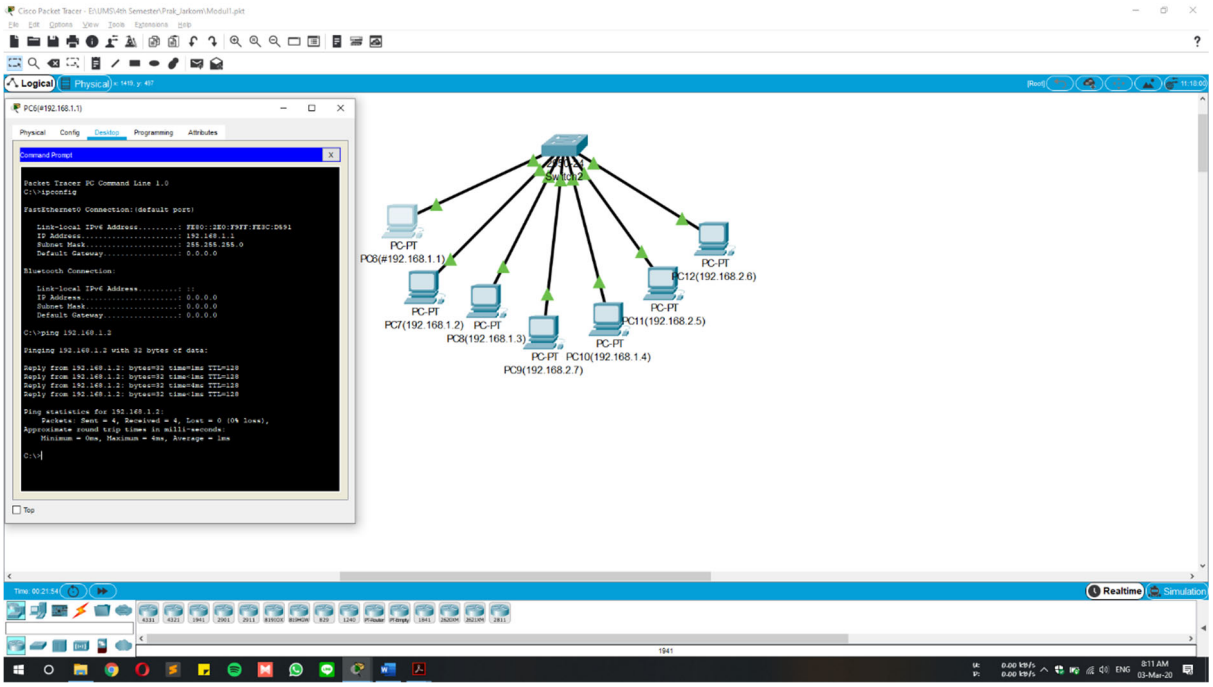
PC8 = 192.168.1.3 PC12 = 192.168.2.6

PC9 = 192.168.2.7

After the circuit is done do the following PING between :

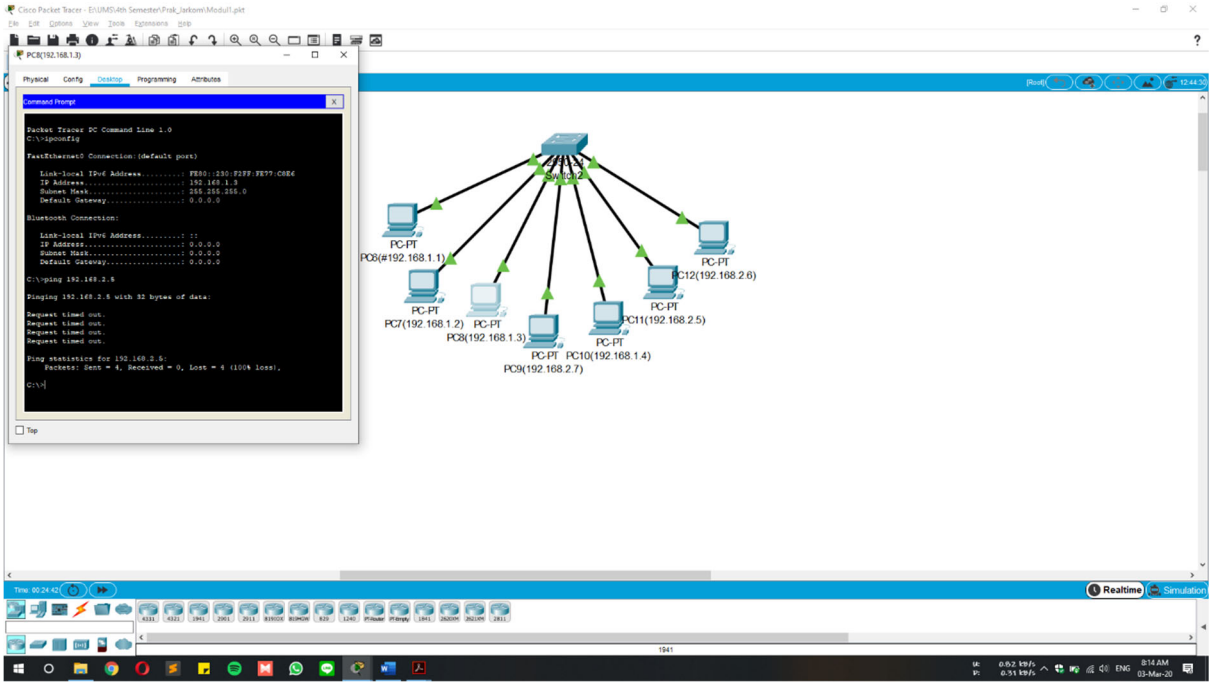
a. PC6 to PC7

b. PC8 to PC11



Pict 6. PING PC6 to PC7

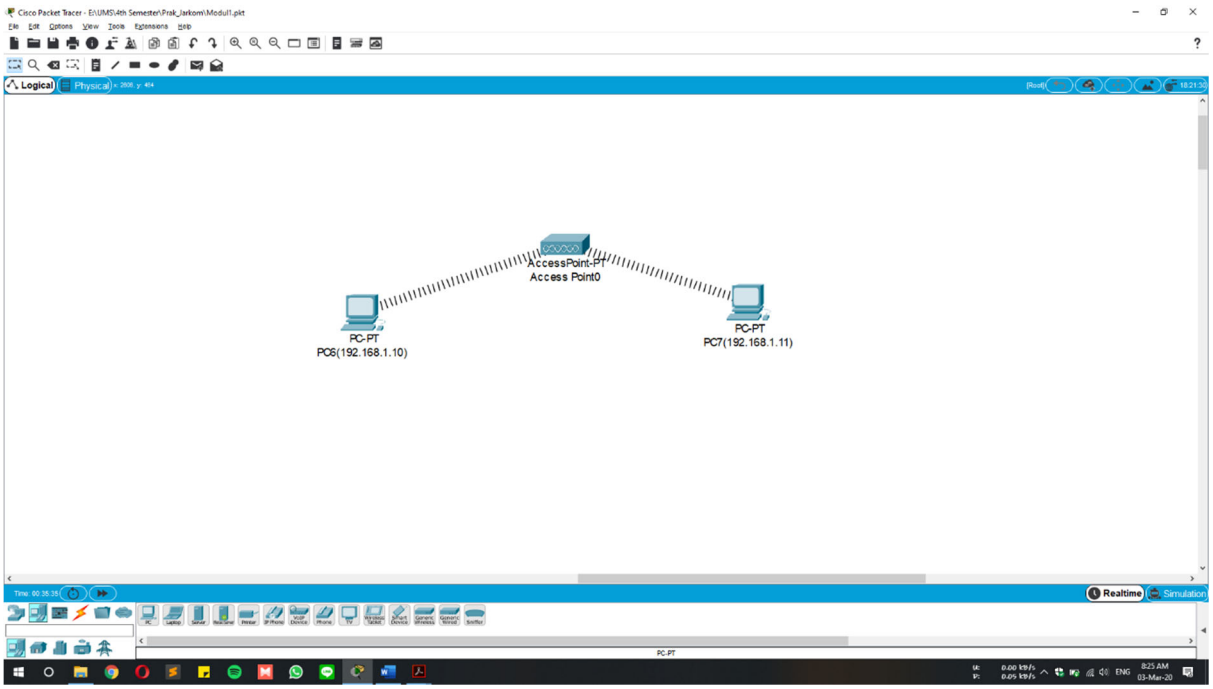
/* it's worked cause the network is the same between PC6 and PC7*/



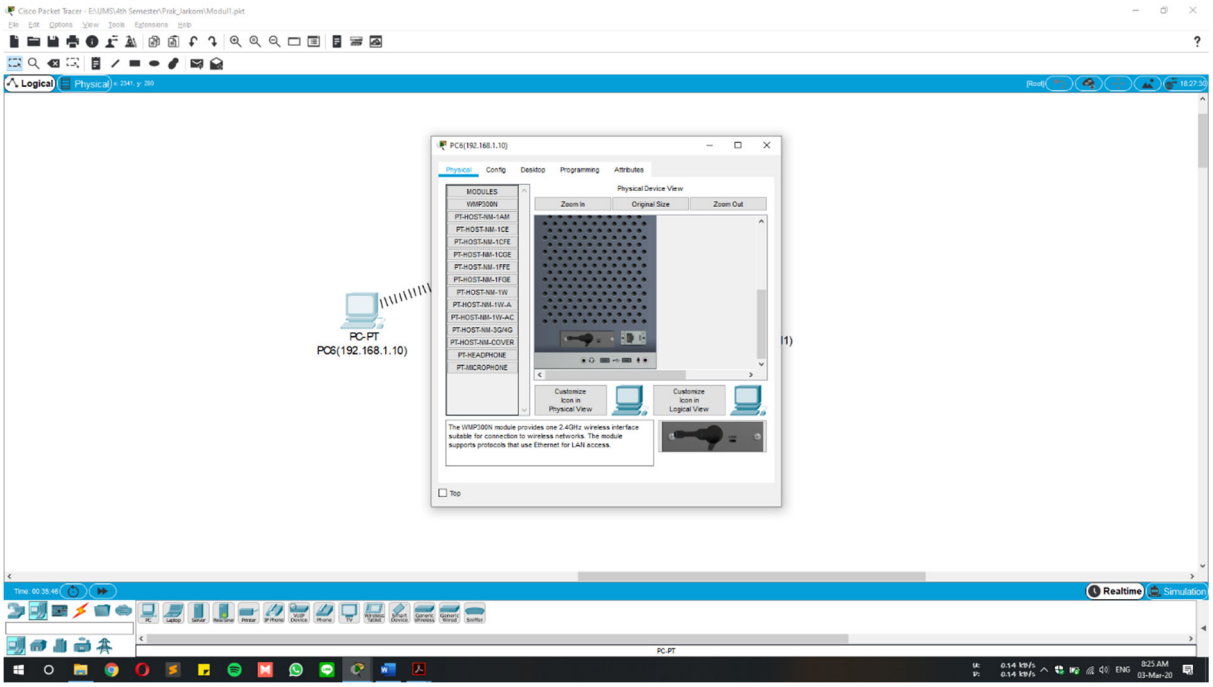
Pict 7. PING PC8 to PC11

/* It wont work cause the network is different */

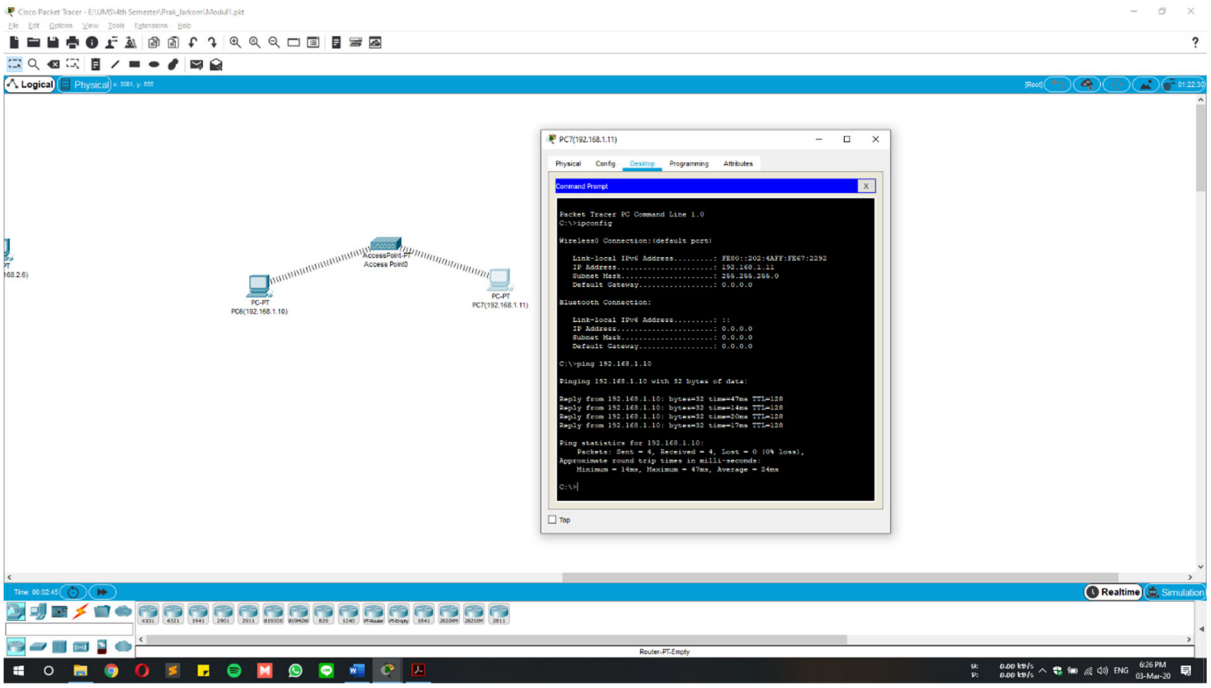
#4. Wireless



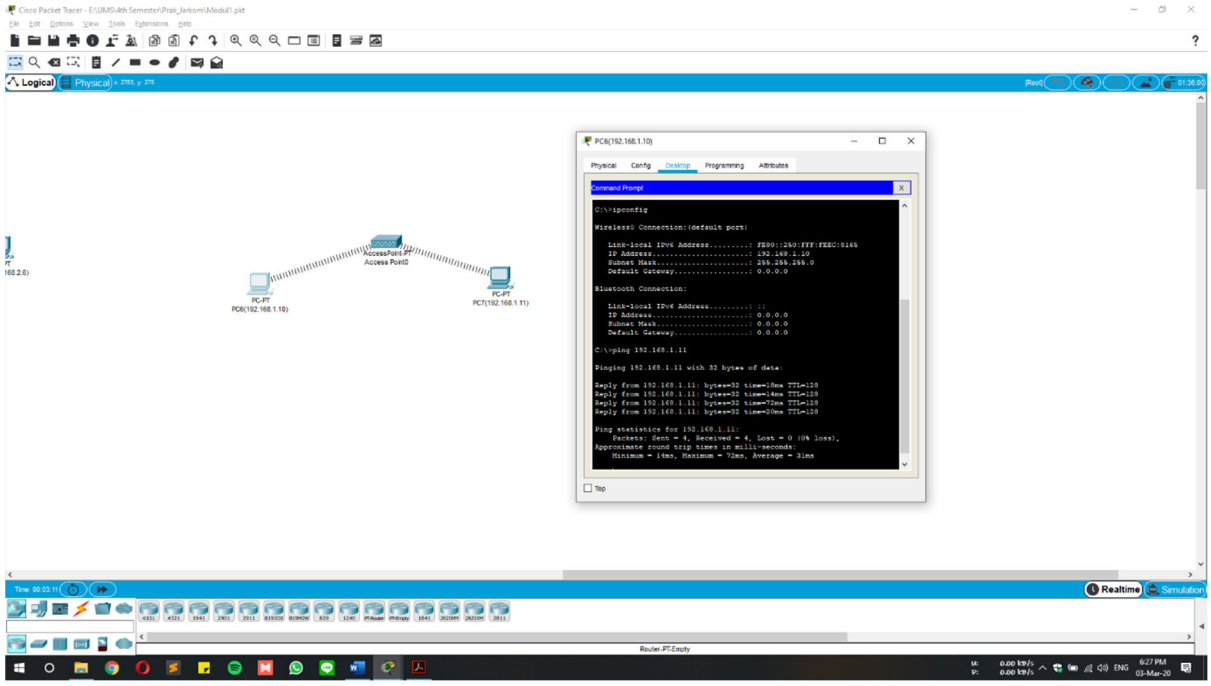
Pict 8. Design Network in Access Point (Wireless)



Pict 9. Change the Module into WMP300N (Wireless)

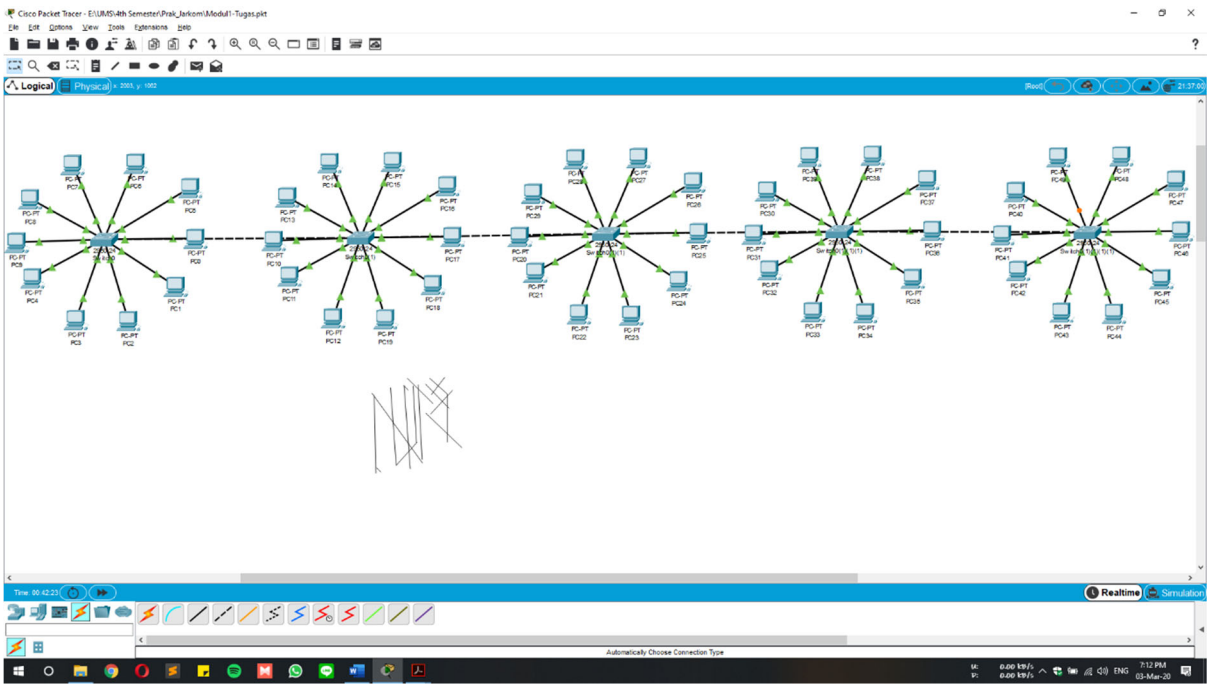


Pict 10. PING PC7 to PC6



Pict 11. PING PC6 to PC7

#Homework

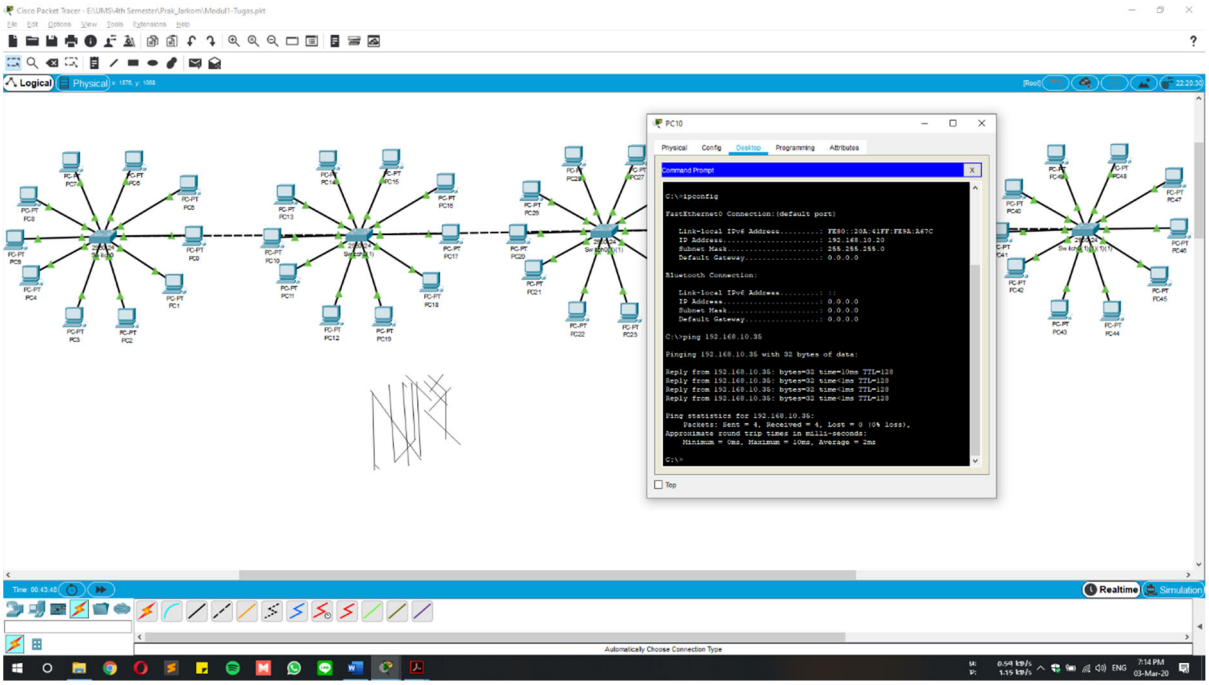


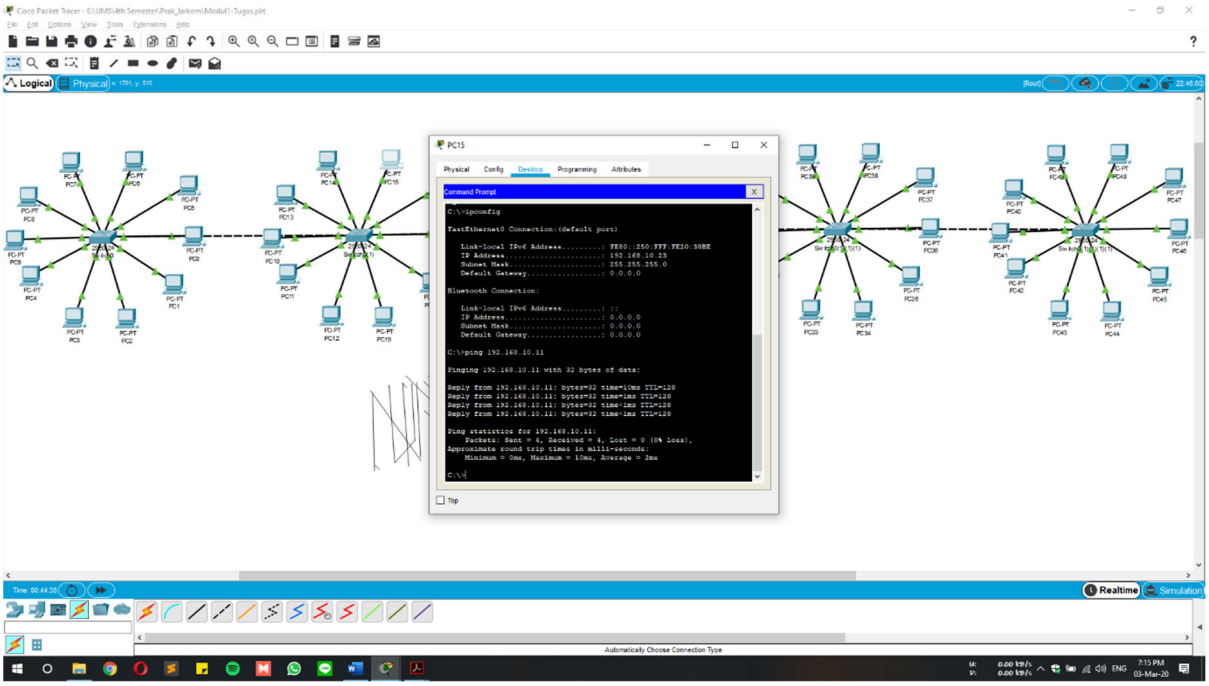
Pict 11. The 5 Switch and 50 PC are connected each other

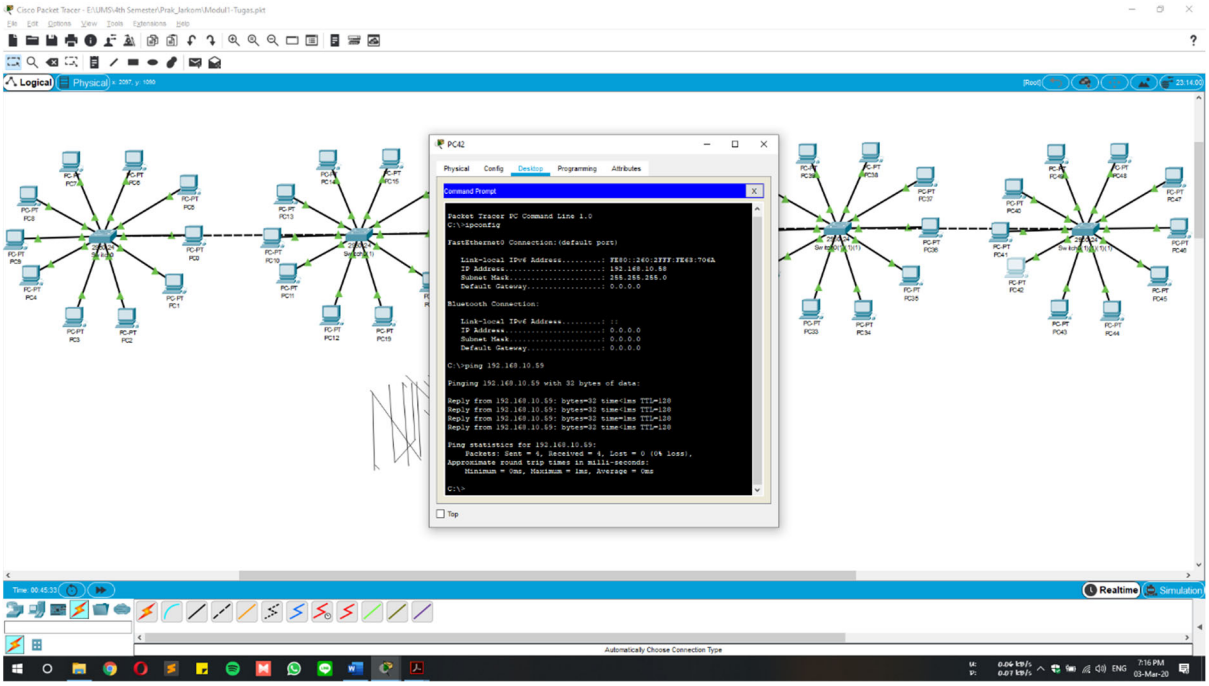
For the picture above the network is connected to each other and for some reason it aint gonna wreck it, and it works like a charm.

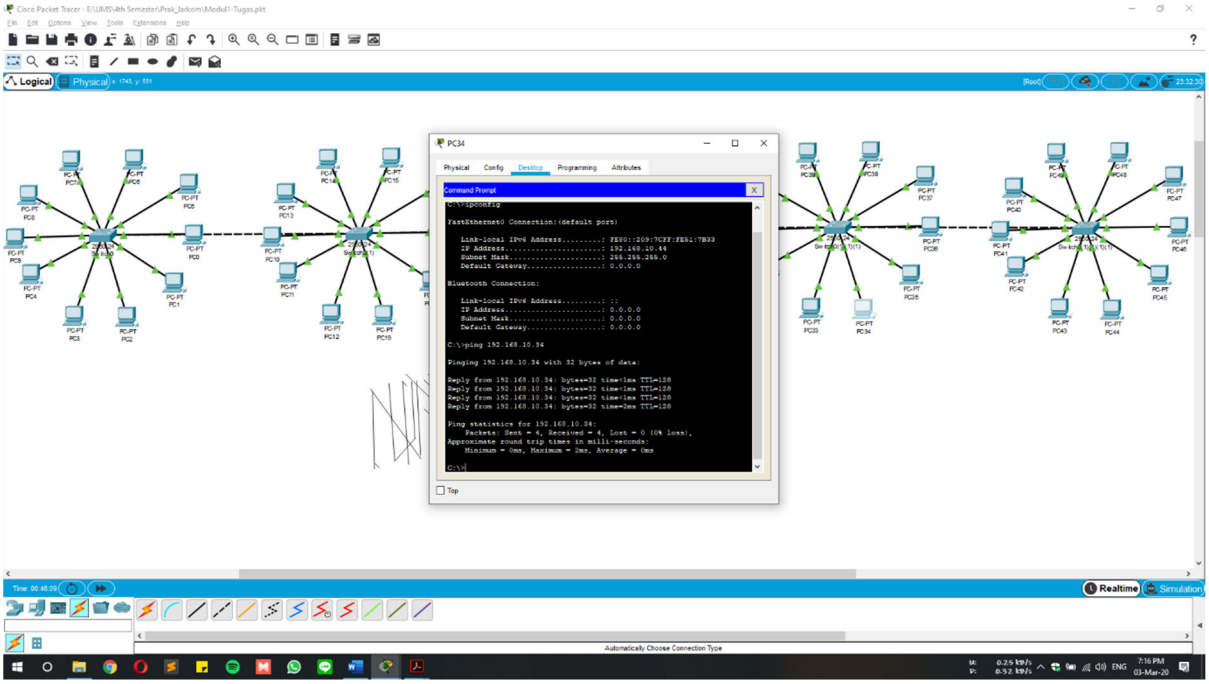
As you can see in the below picture there are some of PING from PC10 to PC34 and others.

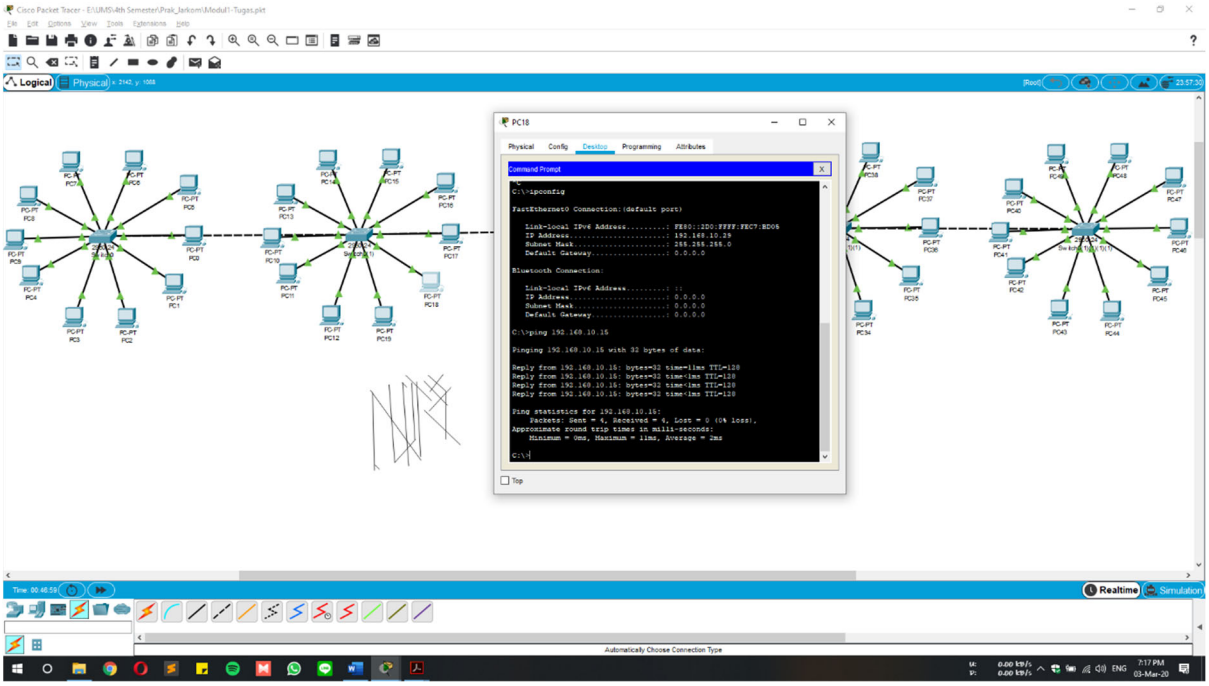
#Attachments PING

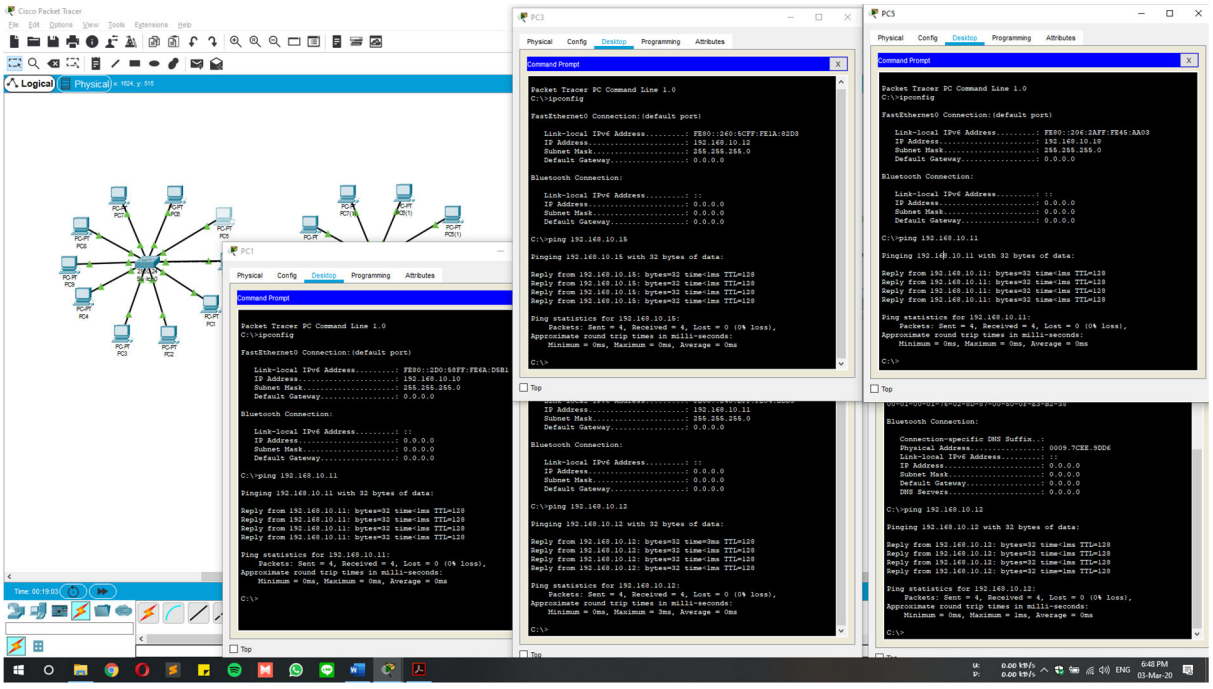





PC42
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Link-local IPv6 Address.....: FE80::240:2FFF:FE63:704A
IP Address.....: 192.168.10.68
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 0.0.0.0
Bluetooth Connection:
Link-local IPv6 Address.....: ::
IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: 0.0.0.0
C:\>ping 192.168.10.55
Pinging 192.168.10.55 with 32 bytes of data:
Reply from 192.168.10.55: bytes=32 time<1ms TTL=128
Reply from 192.168.10.55: bytes=32 time<1ms TTL=128
Reply from 192.168.10.55: bytes=32 time<1ms TTL=128
Reply from 192.168.10.55: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.55:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
Top
Realtime
Simulation
Automatically Choose Connection Type


PC34
Physical Config Desktop Programming Attributes
Command Prompt
C:\>ipconfig
FastEthernet0 Connection:(default port)
Link-local IPv6 Address.....: FE80::2099:7CFF:FE61:7B33
IP Address.....: 192.168.10.64
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 0.0.0.0
Bluetooth Connection:
Link-local IPv6 Address.....: ::
IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: 0.0.0.0
C:\>ping 192.168.10.34
Pinging 192.168.10.34 with 32 bytes of data:
Reply from 192.168.10.34: bytes=32 time<1ms TTL=128
Reply from 192.168.10.34: bytes=32 time<1ms TTL=128
Reply from 192.168.10.34: bytes=32 time<1ms TTL=128
Reply from 192.168.10.34: bytes=32 time=2ms TTL=128
Ping statistics for 192.168.10.34:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 2ms, Average = 0ms
C:\>
Top
Realtime
Simulation
Automatically Choose Connection Type


PC18
Physical
Config
Desktop
Programming
Attributes
Command Prompt
C:\>ipconfig
FastEthernet0 Connection:(default port)
Link-local IPv6 Address.....: FE80::2D0:FFFF:FEC7:BD06
IP Address.....: 192.168.10.29
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 0.0.0.0
Bluetooth Connection:
Link-local IPv6 Address.....: ::
IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: 0.0.0.0
C:\>ping 192.168.10.15
Pinging 192.168.10.15 with 32 bytes of data:
Reply from 192.168.10.15: bytes=32 time=1ms TTL=128
Reply from 192.168.10.15: bytes=32 time<1ms TTL=128
Reply from 192.168.10.15: bytes=32 time<1ms TTL=128
Reply from 192.168.10.15: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.15:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
Top


PC1
PC3
PC5
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Link-local IPv6 Address.....: FE80::2D0:58FF:FE6A:D5B1
IP Address.....: 192.168.10.10
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 0.0.0.0
Bluetooth Connection:
Link-local IPv6 Address.....: ::
IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: 0.0.0.0
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 = 0ms, Average = 0ms
C:\>
Top
Packet Tracer PC Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Link-local IPv6 Address.....: FE80::260:5CFF:FE1A:82D3
IP Address.....: 192.168.10.12
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 0.0.0.0
Bluetooth Connection:
Link-local IPv6 Address.....: ::
IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: 0.0.0.0
C:\>ping 192.168.10.15
Pinging 192.168.10.15 with 32 bytes of data:
Reply from 192.168.10.15: bytes=32 time<1ms TTL=128
Reply from 192.168.10.15: bytes=32 time<1ms TTL=128
Reply from 192.168.10.15: bytes=32 time<1ms TTL=128
Reply from 192.168.10.15: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.15:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
Top
Packet Tracer PC Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Link-local IPv6 Address.....: FE80::296:2AFF:FE4E:AA03
IP Address.....: 192.168.10.10
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 0.0.0.0
Bluetooth Connection:
Link-local IPv6 Address.....: ::
IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: 0.0.0.0
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 = 0ms, Average = 0ms
C:\>
Top