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1. Network ID 202.155.19.0 dengan subnet mask 255.255.255.0 mempunyai 5 divisi per divisi 25 PC.

Jawab :

*Network 202.155.19.0

biner :- 202: 11111111

- 155: 11111111

- 19: 11111111

- 0 : 00000000

#didalam soal dibutuhkan 5 divisi yaitu 5 subnet

*rumus jumlah subnet : 2^x

berarti di biner 0 harus diubah diberi jumlah biner 1 yang apabila dipangkatkan dengan angka 2 menghasilkan 5 subnet atau yang terdekat

#biner 0:11100000

jadi $2^x = 2^3 = 8$ subnet

*jumlah host : $2^5 - 2 = 30$ (jumlah biner 0 pada bit terakhir)

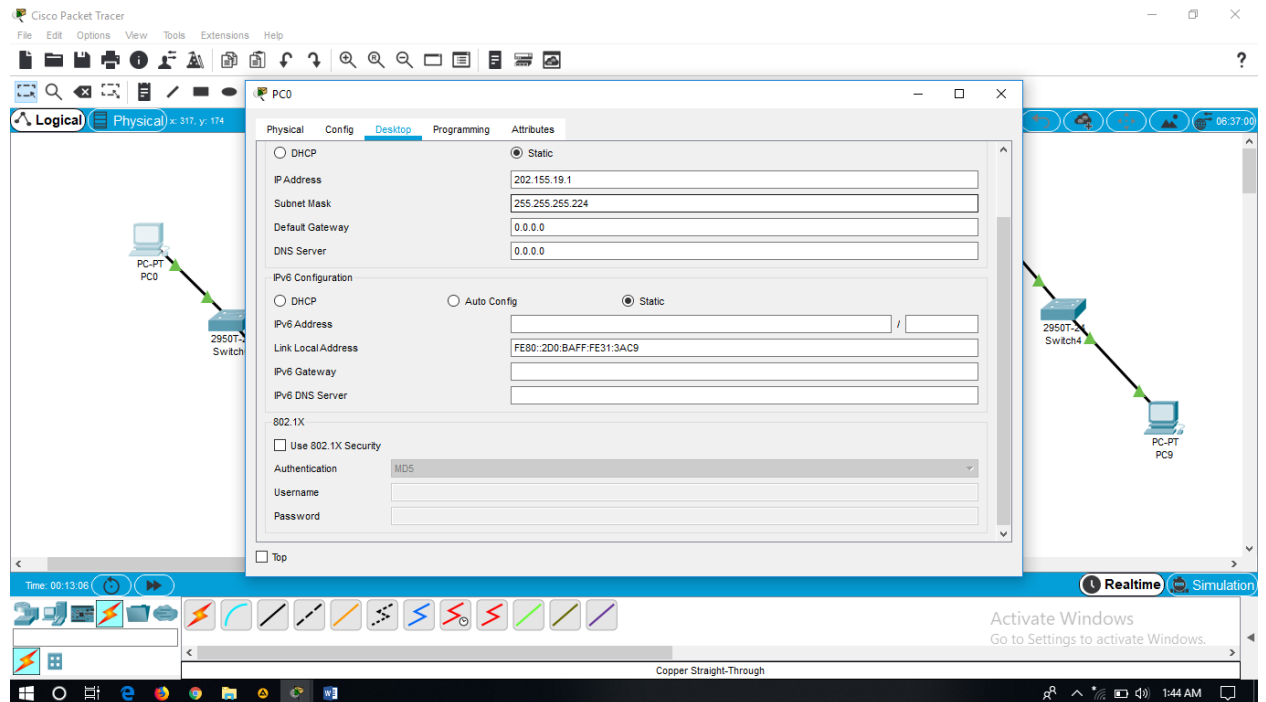
*blok subnet $256 - 32 = 224$

*buat table subnet (ada 8 subnet dengan kelipatan 32)

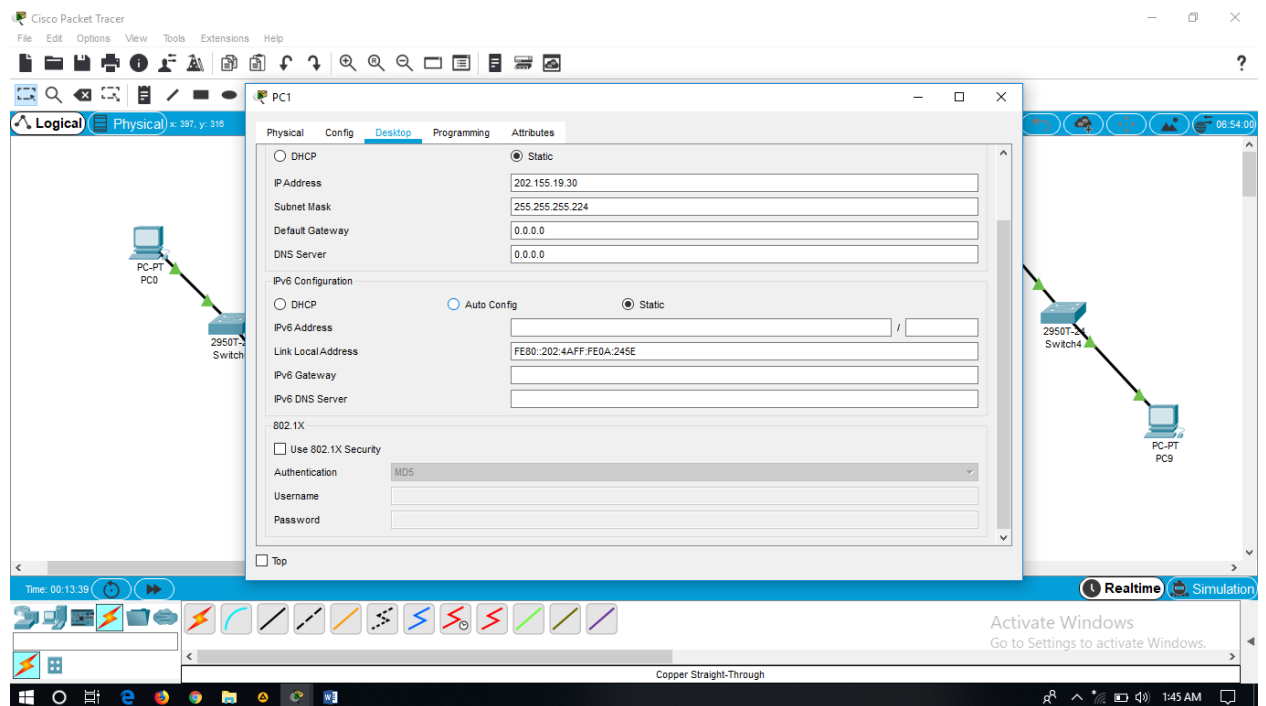
Subnet address	IP awal	IP akhir	Broadcast
202.155.19.0	202.155.19.1	202.155.19.30	202.155.19.31
202.155.19.32	202.155.19.33	202.155.19.62	202.155.19.63
202.155.19.64	202.155.19.65	202.155.19.94	202.155.19.95
202.155.19.96	202.155.19.97	202.155.19.126	202.155.19.127
202.155.19.128	202.155.19.129	202.155.19.158	202.155.19.159
202.155.19.160	202.155.19.161	202.155.19.190	202.155.19.191
202.155.19.192	202.155.19.193	202.155.19.222	202.155.19.223
202.155.19.224			

2. -Pemberian ip dan subnet di ke-2 PC pada divisi pertama

Pc 1



Pc 2



-Pemberian ip dan subnet di ke-2 PC pada divisi ke-2

PC1

The screenshot shows the Cisco Packet Tracer interface with the PC2 configuration window open. The window is titled "PC2" and has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is selected, showing the following configuration:

- ☐ DHCP
- ☒ Static
- IP Address: 202.155.19.33
- Subnet Mask: 255.255.255.224
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0
- IPv6 Configuration:
 - ☐ DHCP
 - ☒ Auto Config
 - ☒ Static
 - IPv6 Address: /
 - Link Local Address: FE80::2E0:A3FF:FE86:B03E
 - IPv6 Gateway: /
 - IPv6 DNS Server: /
- 802.1X:
 - ☐ Use 802.1X Security
 - Authentication: MDS
 - Username: /
 - Password: /

The background shows a network diagram with PC-PT PC0 connected to 2950T Switch, and PC-PT PC9 connected to 2950T Switch4. The status bar at the bottom indicates "Copper Straight-Through" and "Activate Windows Go to Settings to activate Windows." The time is 00:16:02.

PC2

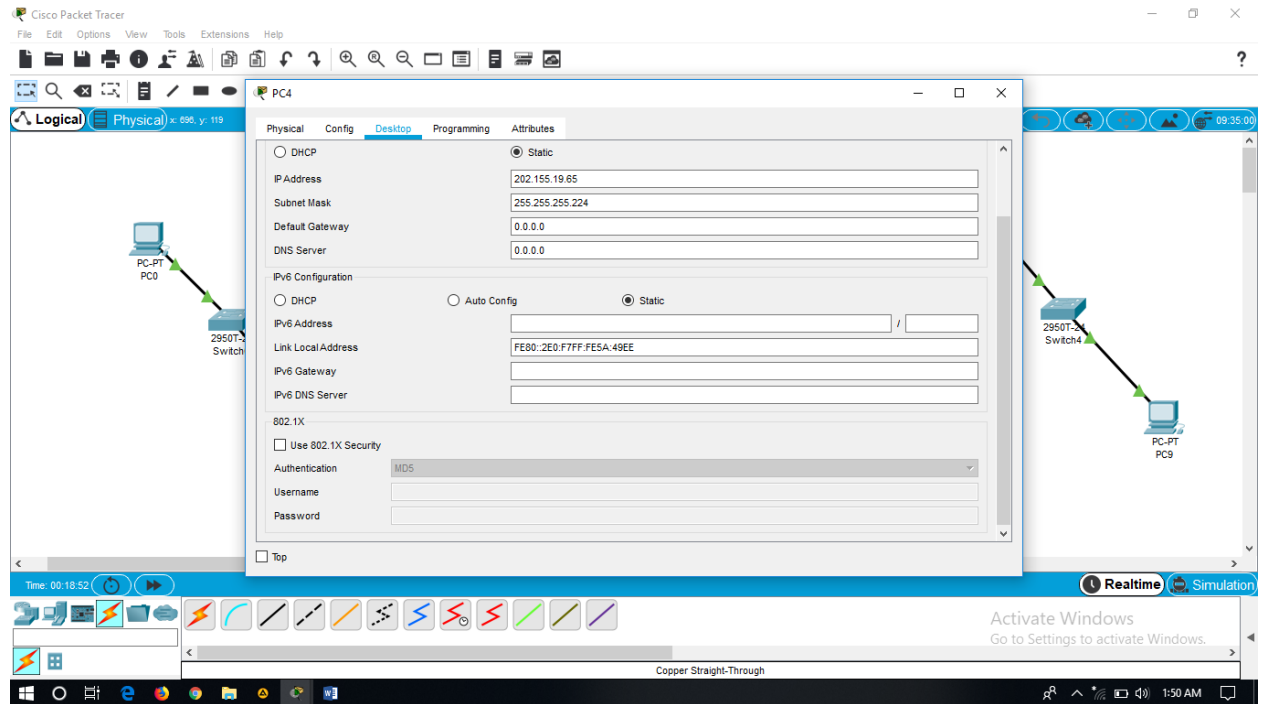
The screenshot shows the Cisco Packet Tracer interface with the PC3 configuration window open. The window is titled "PC3" and has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is selected, showing the following configuration:

- ☐ DHCP
- ☒ Static
- IP Address: 202.155.19.62
- Subnet Mask: 255.255.255.224
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0
- IPv6 Configuration:
 - ☐ DHCP
 - ☒ Auto Config
 - ☒ Static
 - IPv6 Address: /
 - Link Local Address: FE80::208:BEFF:FED1:DD6
 - IPv6 Gateway: /
 - IPv6 DNS Server: /
- 802.1X:
 - ☐ Use 802.1X Security
 - Authentication: MDS
 - Username: /
 - Password: /

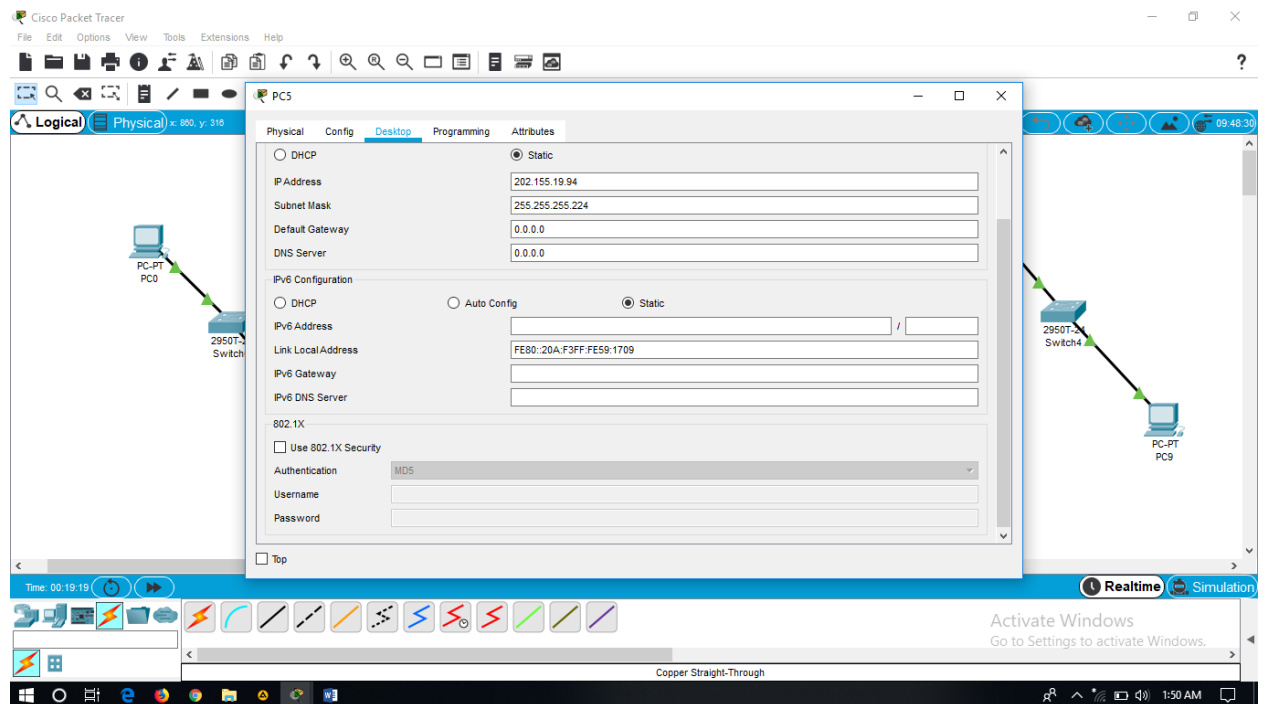
The background shows a network diagram with PC-PT PC0 connected to 2950T Switch, and PC-PT PC9 connected to 2950T Switch4. The status bar at the bottom indicates "Copper Straight-Through" and "Activate Windows Go to Settings to activate Windows." The time is 00:16:13.

-Pemberian ip dan subnet di ke-2 PC pada divisi ke-3

PC1



PC2



-Pemberian ip dan subnet di ke-2 PC pada divisi ke-4

PC1

The screenshot displays the Cisco Packet Tracer interface with the configuration window for PC6 (PC-PT PC0) open. The 'Desktop' tab is selected, showing the following configuration details:

- Physical:** DHCP is unselected, Static is selected.
- IP Address:** 202.155.19.97
- Subnet Mask:** 255.255.255.224
- Default Gateway:** 0.0.0.0
- DNS Server:** 0.0.0.0
- IPv6 Configuration:** DHCP is unselected, Static is selected.
- IPv6 Address:** (empty field)
- Link Local Address:** FE80::260:47FF:FE5C:8B29
- IPv6 Gateway:** (empty field)
- IPv6 DNS Server:** (empty field)
- 802.1X:** Use 802.1X Security is unchecked.
- Authentication:** MDS (selected from dropdown)
- Username:** (empty field)
- Password:** (empty field)

The background shows a network diagram with PC6 connected to a 2950T switch, and another switch connected to PC9. The bottom status bar indicates 'Time: 00:19:45' and 'Copper Straight-Through'.

PC2

The screenshot displays the Cisco Packet Tracer interface with the configuration window for PC7 (PC-PT PC0) open. The 'Desktop' tab is selected, showing the following configuration details:

- Physical:** DHCP is unselected, Static is selected.
- IP Address:** 202.155.19.126
- Subnet Mask:** 255.255.255.224
- Default Gateway:** 0.0.0.0
- DNS Server:** 0.0.0.0
- IPv6 Configuration:** DHCP is unselected, Static is selected.
- IPv6 Address:** (empty field)
- Link Local Address:** FE80::2E0:F7FF:FE60:7E8B
- IPv6 Gateway:** (empty field)
- IPv6 DNS Server:** (empty field)
- 802.1X:** Use 802.1X Security is unchecked.
- Authentication:** MDS (selected from dropdown)
- Username:** (empty field)
- Password:** (empty field)

The background shows a network diagram with PC7 connected to a 2950T switch, and another switch connected to PC9. The bottom status bar indicates 'Time: 00:20:06' and 'Copper Straight-Through'.

-Pemberian ip dan subnet di ke-2 PC pada divisi ke-5

PC1

The screenshot shows the Cisco Packet Tracer interface with the configuration window for PC1 (PC-PT PC0) open. The 'Desktop' tab is selected, and the 'Static' radio button is chosen for IP configuration. The IP Address is set to 202.155.19.129, and the Subnet Mask is 255.255.255.224. The Default Gateway and DNS Server are both set to 0.0.0.0. The IPv6 Configuration section shows 'Static' selected, with the Link Local Address set to FE80::201:C7FF:FEE9:976. The 802.1X section is collapsed. The background shows a network diagram with PC1 connected to a 2950T switch, which is connected to another 2950T switch, which is then connected to PC2 (PC-PT PC9). The status bar at the bottom indicates 'Copper Straight-Through' and 'Realtime' simulation mode.

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 202.155.19.129

Subnet Mask 255.255.255.224

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:C7FF:FEE9:976

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

☐ Top

Time: 00:20:20

Activate Windows
Go to Settings to activate Windows.

Copper Straight-Through

1:52 AM

PC2

The screenshot shows the Cisco Packet Tracer interface with the configuration window for PC2 (PC-PT PC9) open. The 'Desktop' tab is selected, and the 'Static' radio button is chosen for IP configuration. The IP Address is set to 202.155.19.158, and the Subnet Mask is 255.255.255.224. The Default Gateway and DNS Server are both set to 0.0.0.0. The IPv6 Configuration section shows 'Static' selected, with the Link Local Address set to FE80::2E0:8FFF:FE7D:443D. The 802.1X section is collapsed. The background shows a network diagram with PC2 connected to a 2950T switch, which is connected to another 2950T switch, which is then connected to PC1 (PC-PT PC0). The status bar at the bottom indicates 'Copper Straight-Through' and 'Realtime' simulation mode.

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 202.155.19.158

Subnet Mask 255.255.255.224

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:8FFF:FE7D:443D

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

☐ Top

Time: 00:20:33

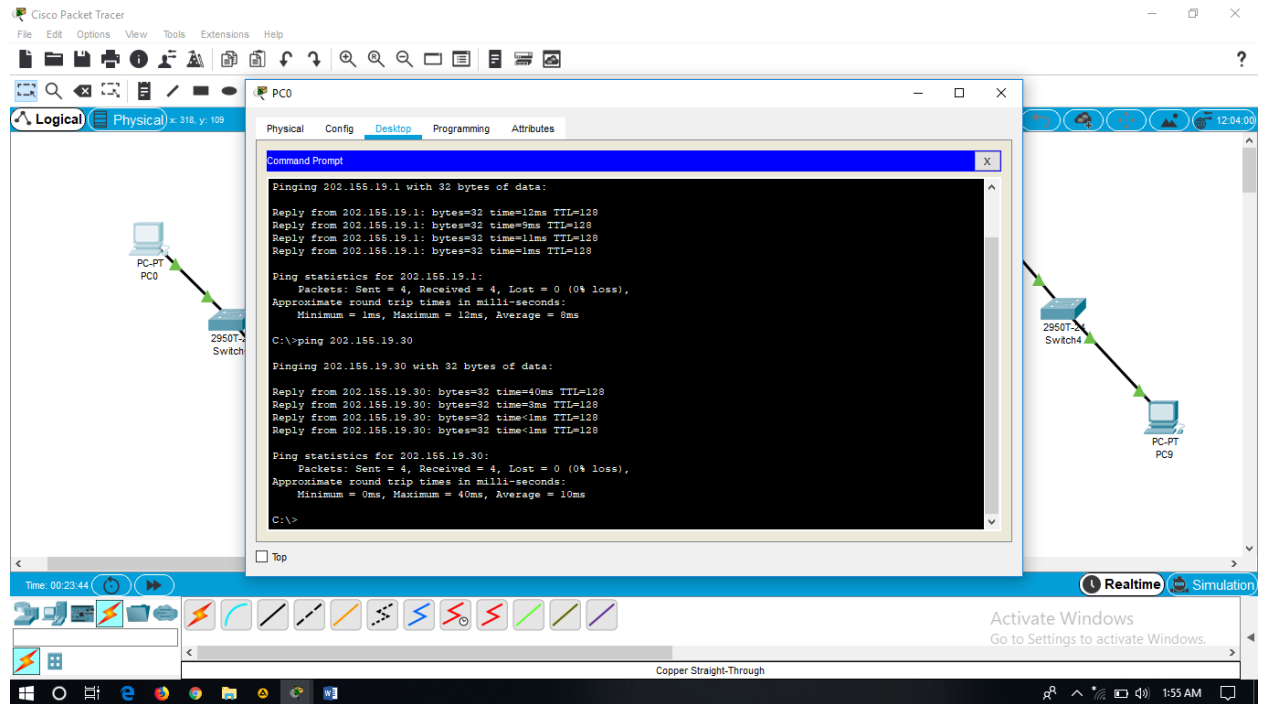
Activate Windows
Go to Settings to activate Windows.

Copper Straight-Through

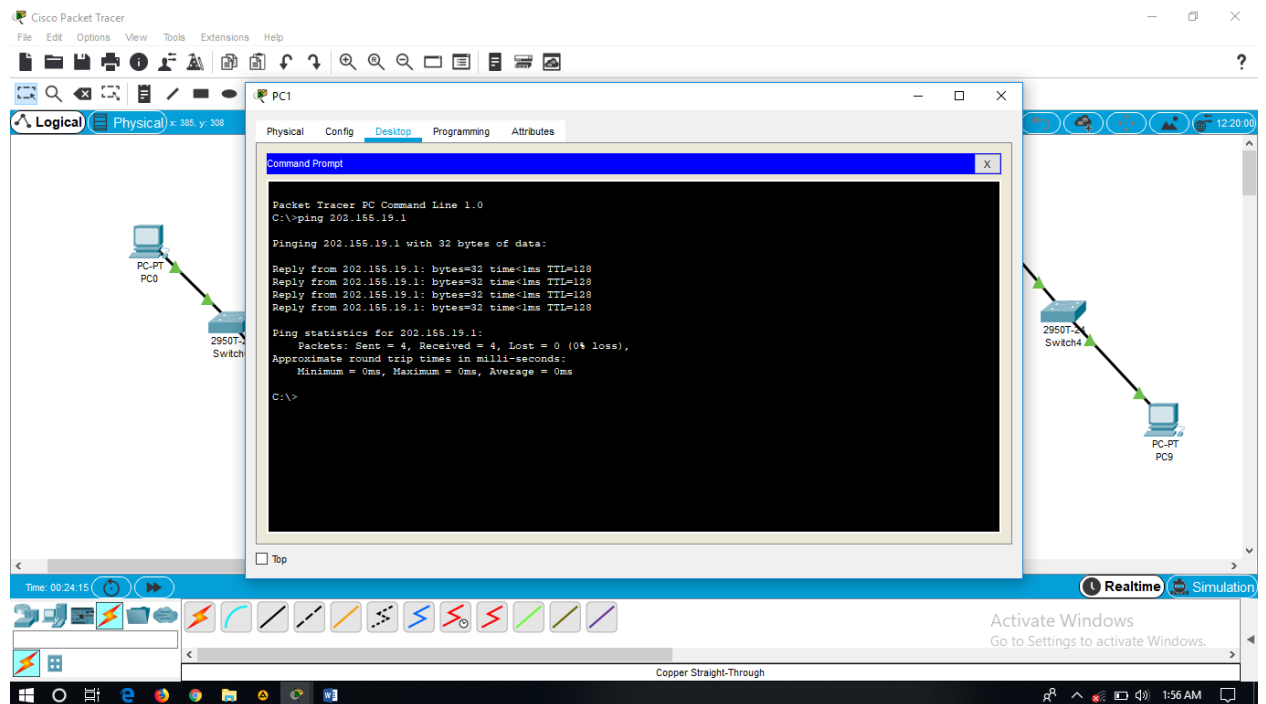
1:52 AM

#Hasil Ping divisi 1

PC1

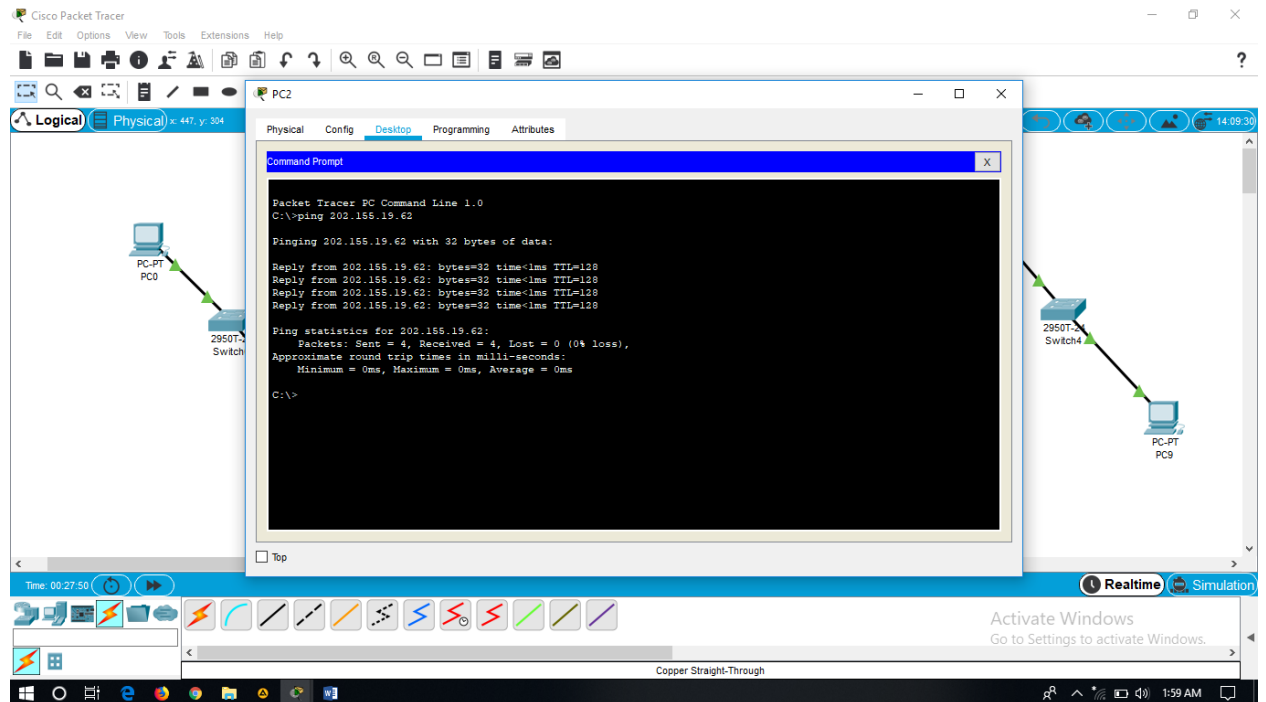


PC2

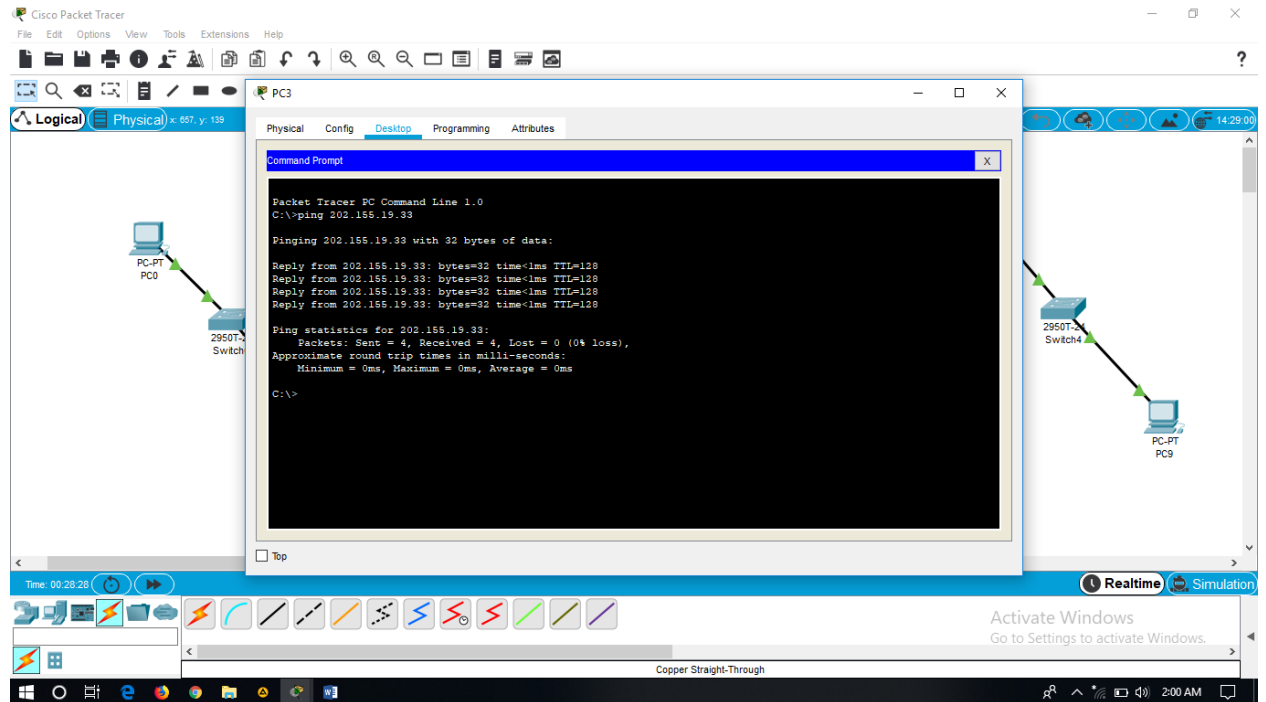


#Hasil Ping divisi 2

PC1

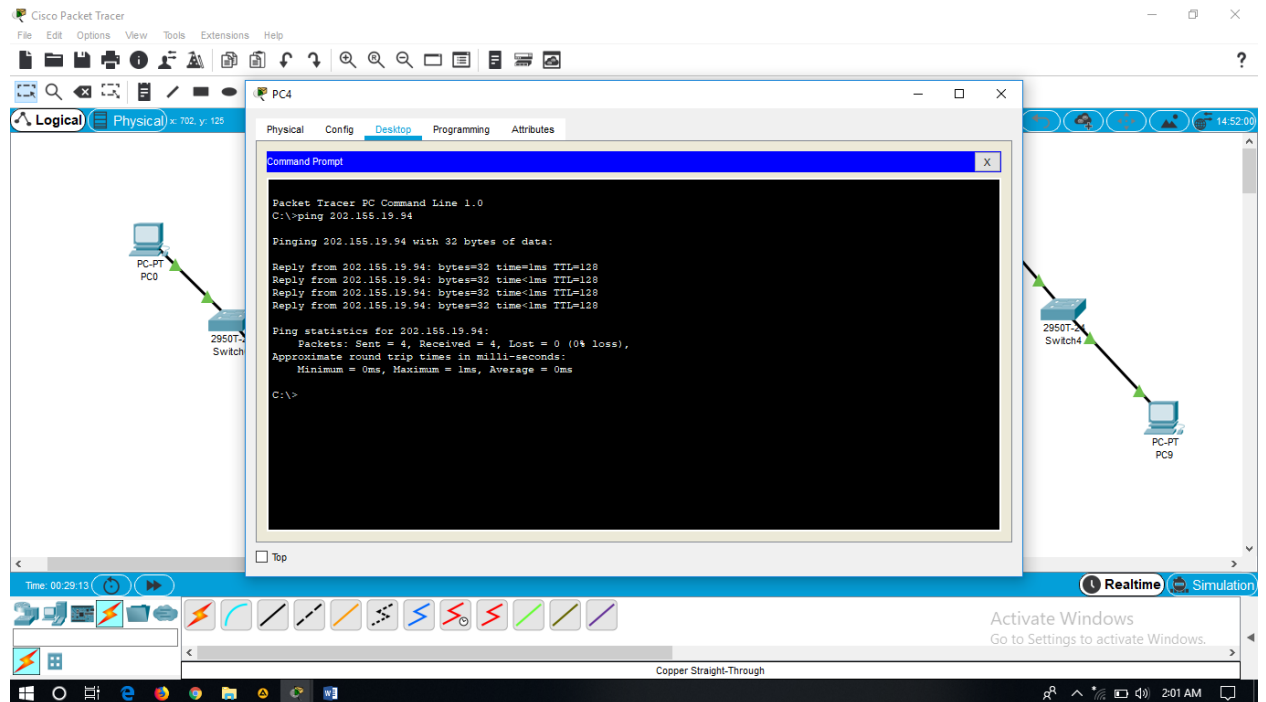


PC2

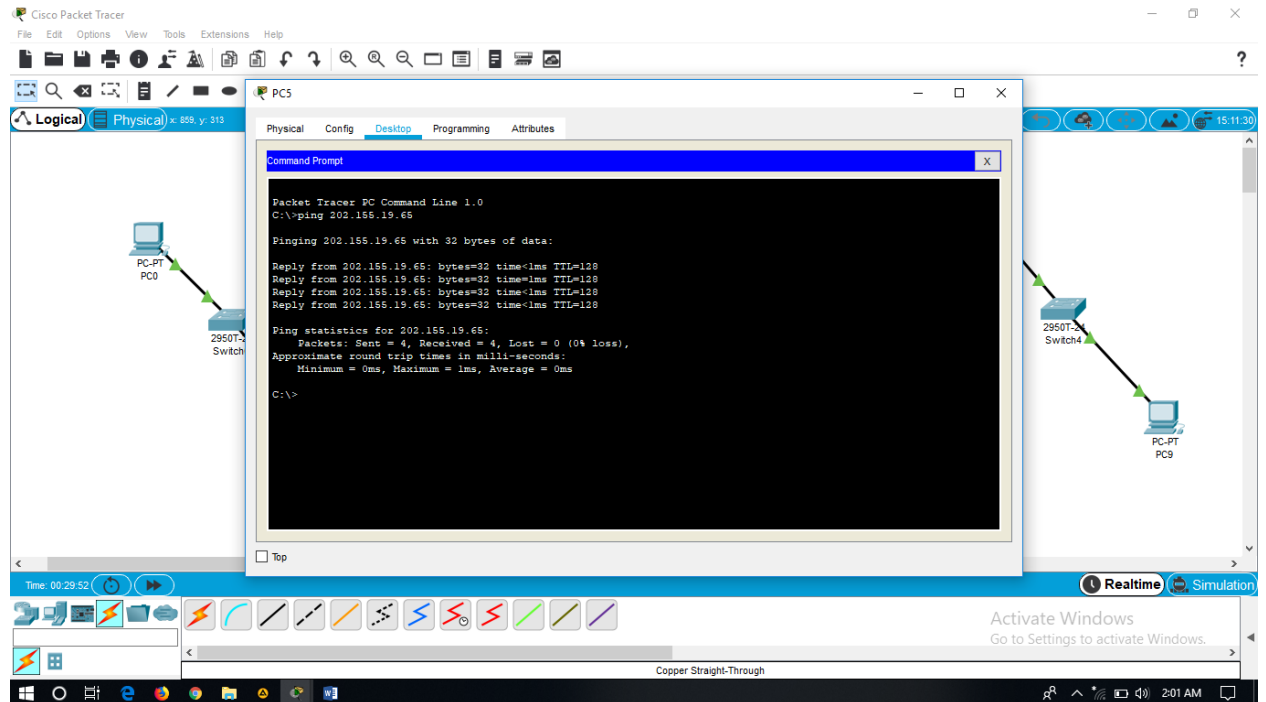


#Hasil Ping divisi 3

PC1

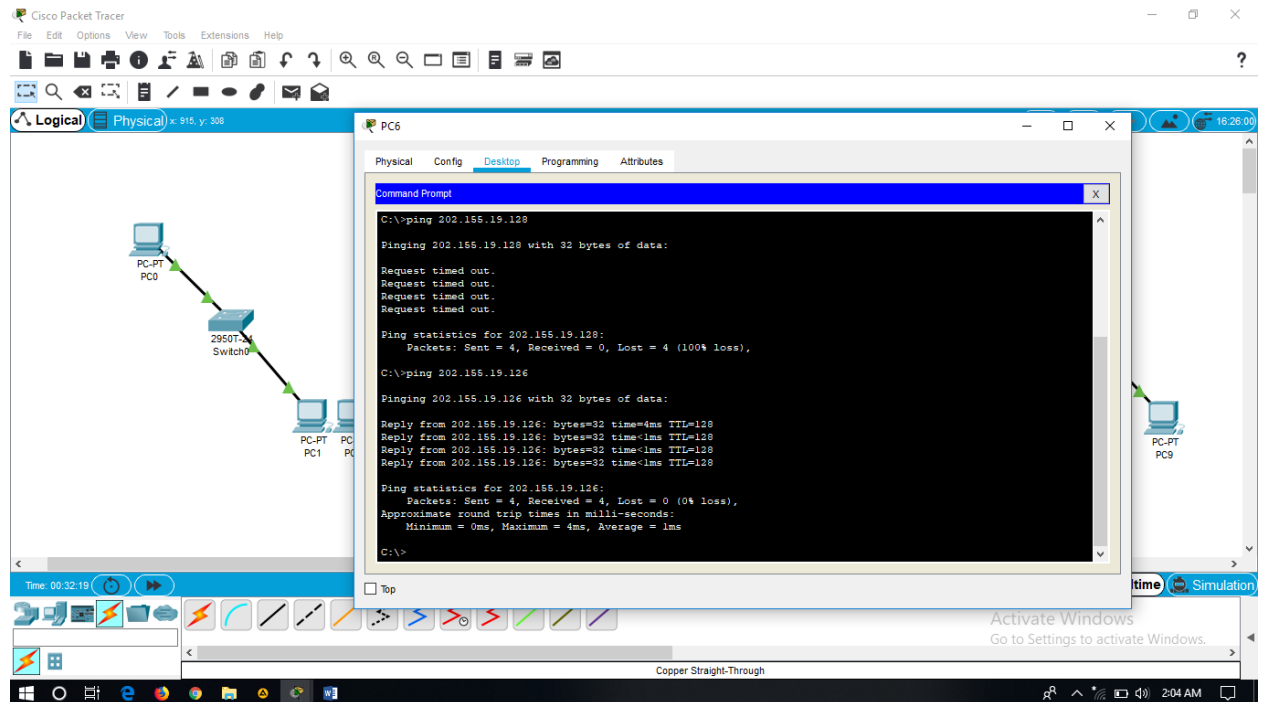


PC2

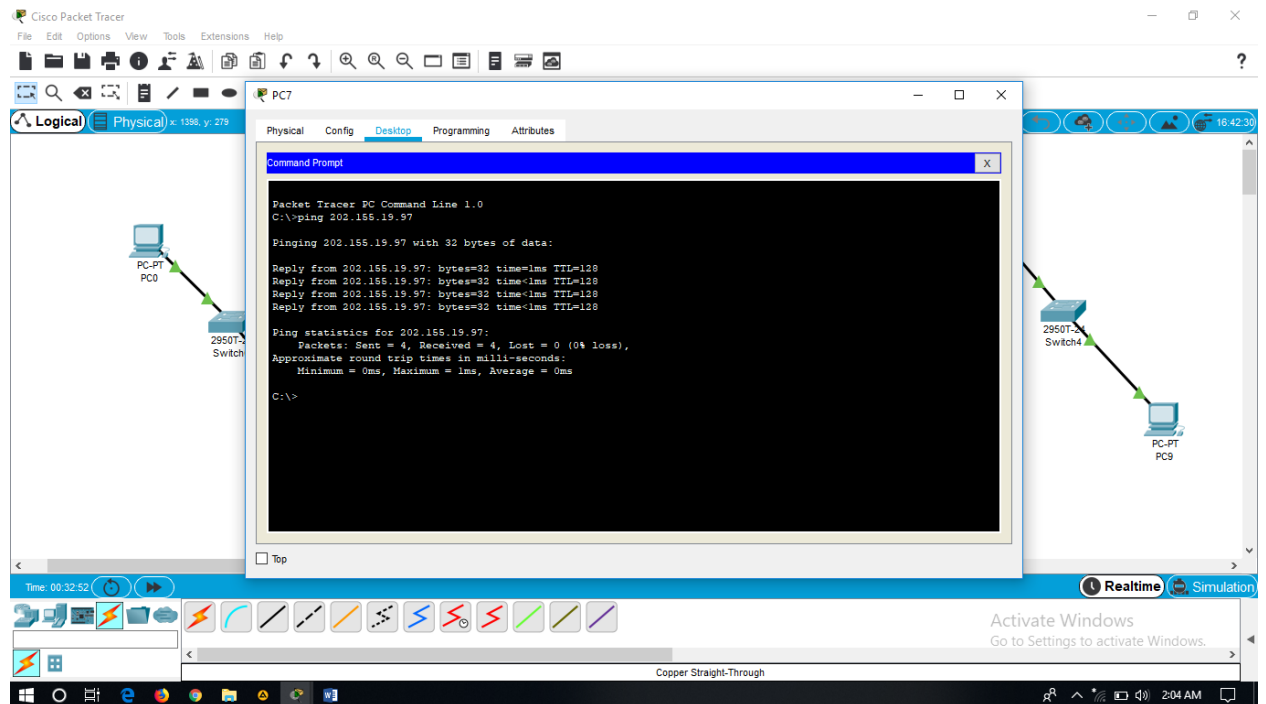


#Hasil Ping divisi 4

PC1

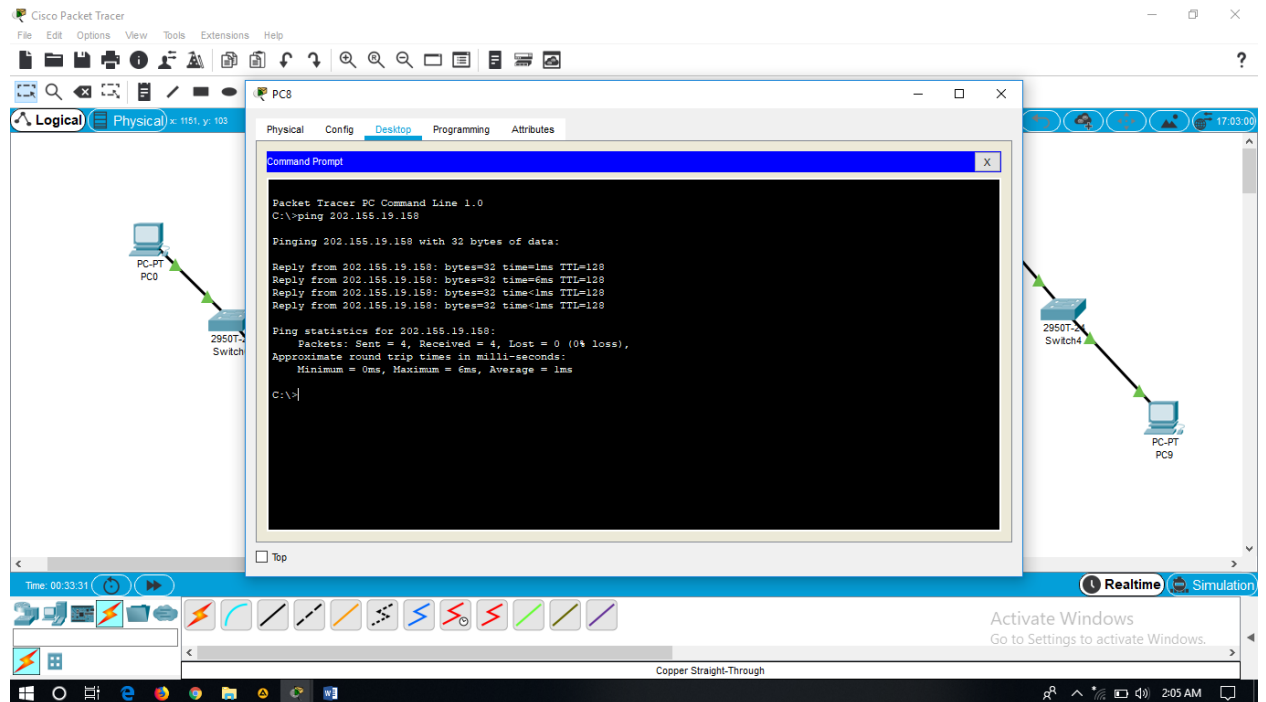


PC2

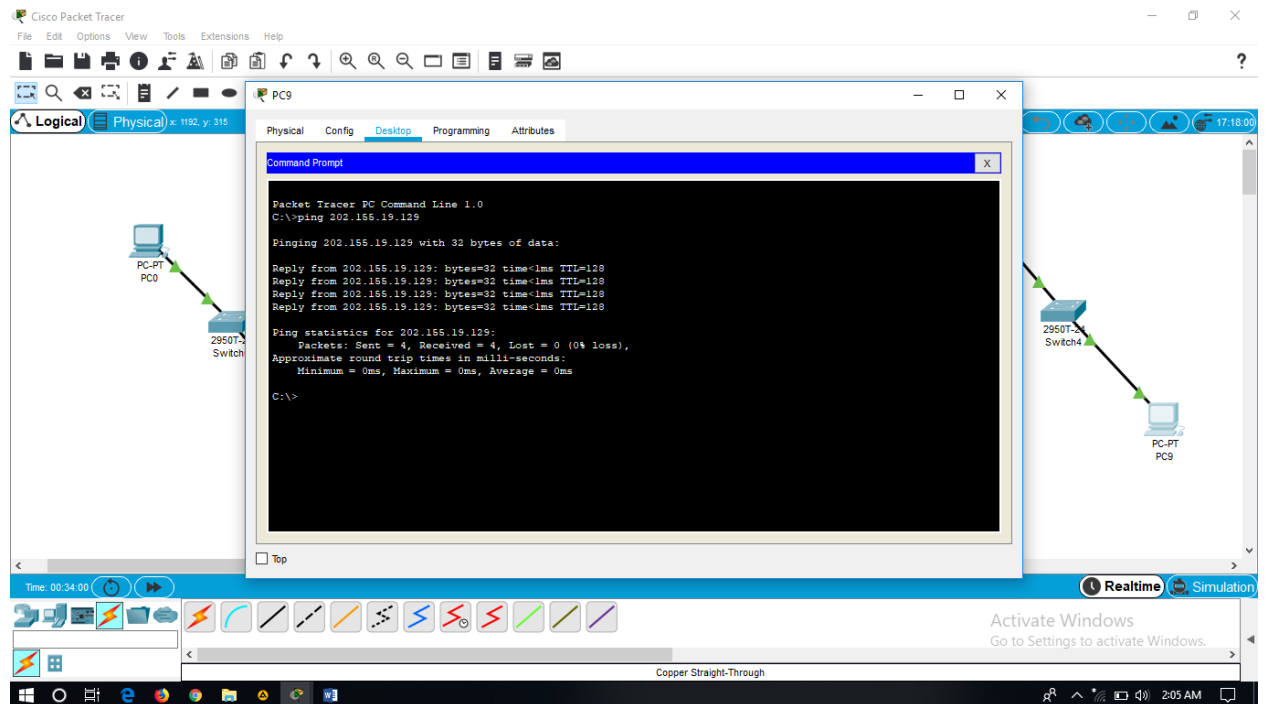


#Hasil Ping divisi 5

PC1



PC2



Gambar Rangkaianya

