BSC10924 – Networking Technologies Grp A&B – Practical CA1

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Obs. I have spoken to you during the exam, that I had chosen the name of the devices before you spoke to us what should be.

You said to leave a note here to remind you, that you let me to leave it like it is. Thanks

IMPORTANT: When saving this document please make sure that your Student ID is included in the filename.

Subnet 1

Record your calculations here:

	Octet 1 Binary	Octet 2 Binary	Octet 3 Binary	Octet 4 Binary	IP Address / Subnet Mask in Decimal
Network Address	**1100 0000**	**1010 1000**	**0100 0011**	**0000 0000**	**192.168.67.0**
Subnet Mask	**1111 1111**	**1111 1111**	**1111 1111**	**0000 0000**	**255.255.255.0**
First Usable Address	**1100 0000**	**1010 1000**	**0100 0011**	**0000 0001**	**255.255.255.0**
Last Usable Address	**1100 0000**	**1010 1000**	**0100 0011**	**1111 1110**	**255.255.255.0**
Broadcast Address	**1100 0000**	**1010 1000**	**0100 0011**	**1111 1111**	**255.255.255.0**

Subnet 2

Record your calculations here:

	Octet 1 Binary	Octet 2 Binary	Octet 3 Binary	Octet 4 Binary	IP Address / Subnet Mask in Decimal
Network Address	**1100 0000**	**1010 1000**	**0100 1000**	**0000 0000**	**192.168.67.0**
Subnet Mask	**1111 1111**	**1111 1111**	**1111 1111**	**0000 0000**	**255.255.255.0**
First Usable Address	**1100 0000**	**1010 1000**	**0100 1000**	**0000 0001**	**255.255.255.0**
Last Usable Address	**1100 0000**	**1010 1000**	**0100 1000**	**1111 1110**	**255.255.255.0**
Broadcast Address	**1100 0000**	**1010 1000**	**0100 1000**	**1111 1111**	**255.255.255.0**

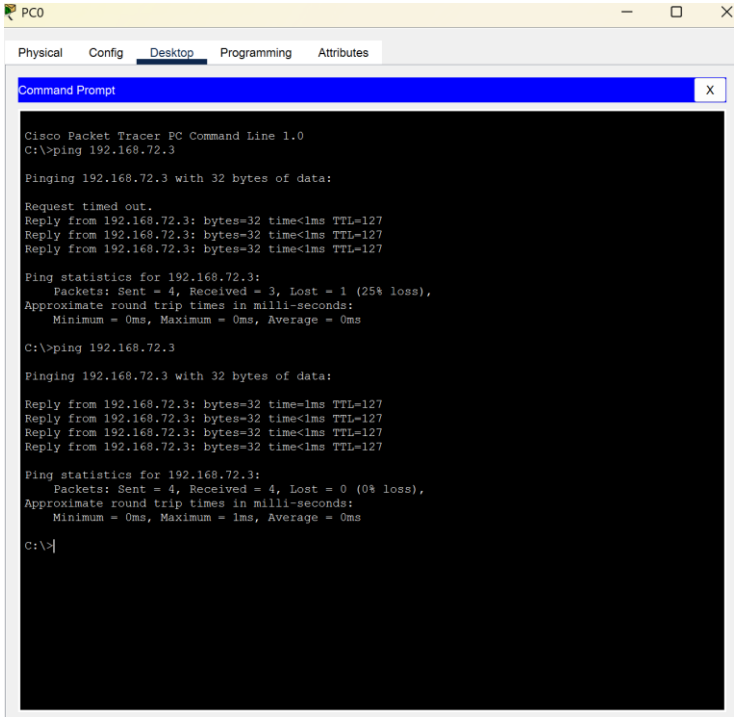
Addressing Table

Device	Interface Name	IP Address	Subnet Mask	Default Gateway
Router R1	G0/0	192.168.67.250	255.255.255.0	
	G0/1	192.168.72.250	255.255.255.0	
Switch S1 A	Interface VLAN1	192.168.67.249	255.255.255.0	192.168.67.250
Switch S1 B	Interface VLAN1	192.168.67.248	255.255.255.0	192.168.67.250
Switch S3	Interface VLAN1	192.168.72.249	255.255.255.0	192.168.72.250
PC0	Fa0	192.168.67.1	255.255.255.0	192.168.67.250
PC1	Fa0	192.168.67.2	255.255.255.0	192.168.67.250
PC2	Fa0	192.168.67.3	255.255.255.0	192.168.67.250
PC3	Fa0	192.168.67.4	255.255.255.0	192.168.67.250
PC4	Fa0	192.168.72.1	255.255.255.0	192.168.72.250
PC5	Fa0	192.168.72.2	255.255.255.0	192.168.72.250
PC6	Fa0	192.168.72.3	255.255.255.0	192.168.72.250
PC7	Fa0	192.168.72.4	255.255.255.0	192.168.72.250
Server0	Fa0	192.168.67.5	255.255.255.0	192.168.67.250
Server1	Fa0	192.168.72.5	255.255.255.0	192.168.72.250

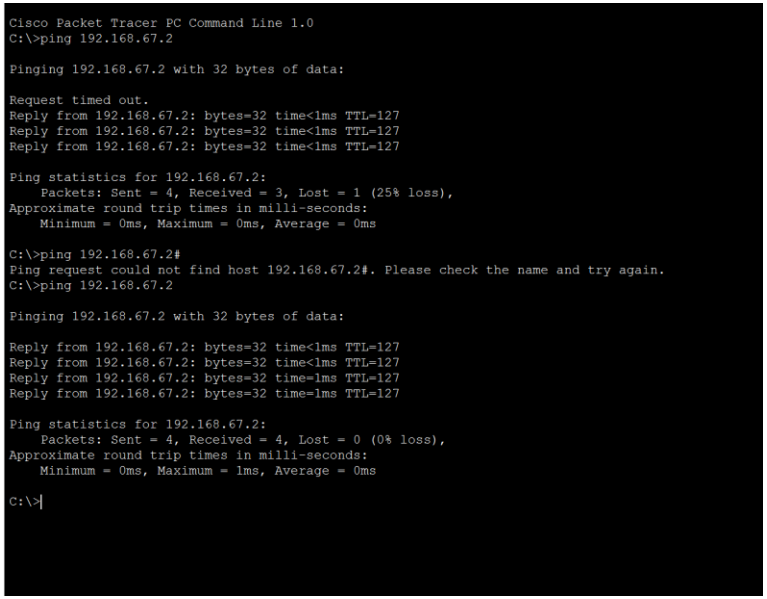
Record all your screenshots here:

Make sure to provide a title/description for each screenshot indicating which part of the assessment your screenshot belongs to.

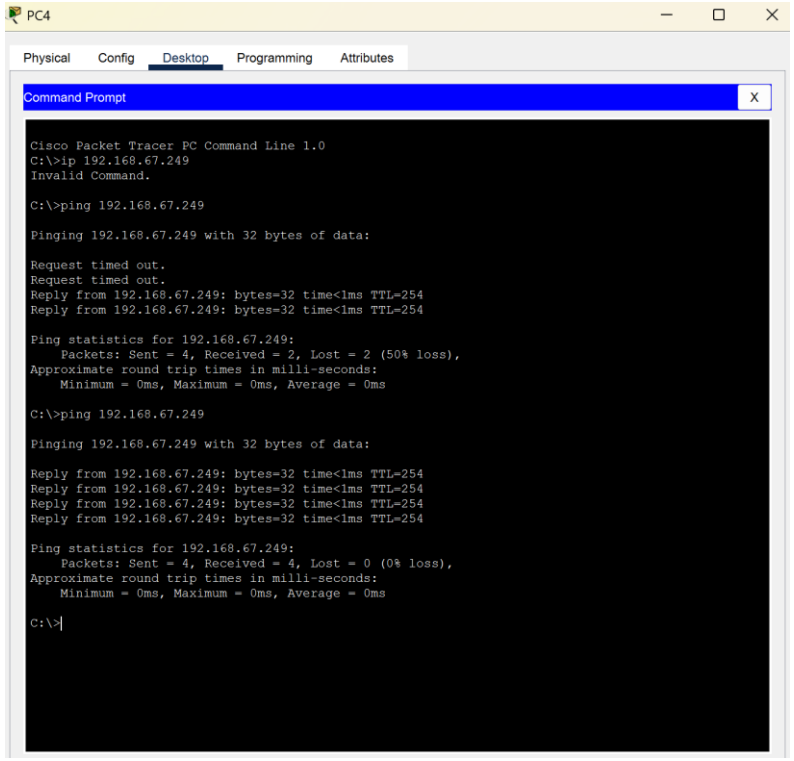
1- **Testing connectivity from a pc at subnet 1 to a pc on subnet 2 (PC 0 -> PC 6)**



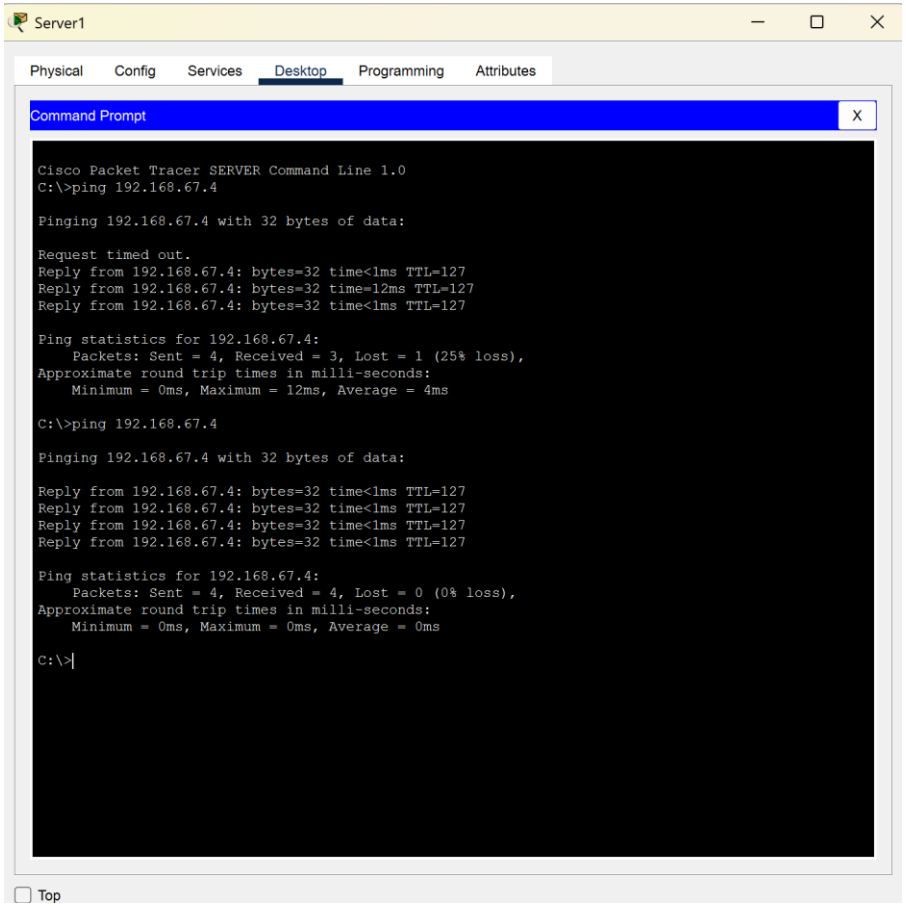
2- Testing connectivity from a pc at subnet 2 to a pc on subnet 1 (PC 5 -> PC 1)



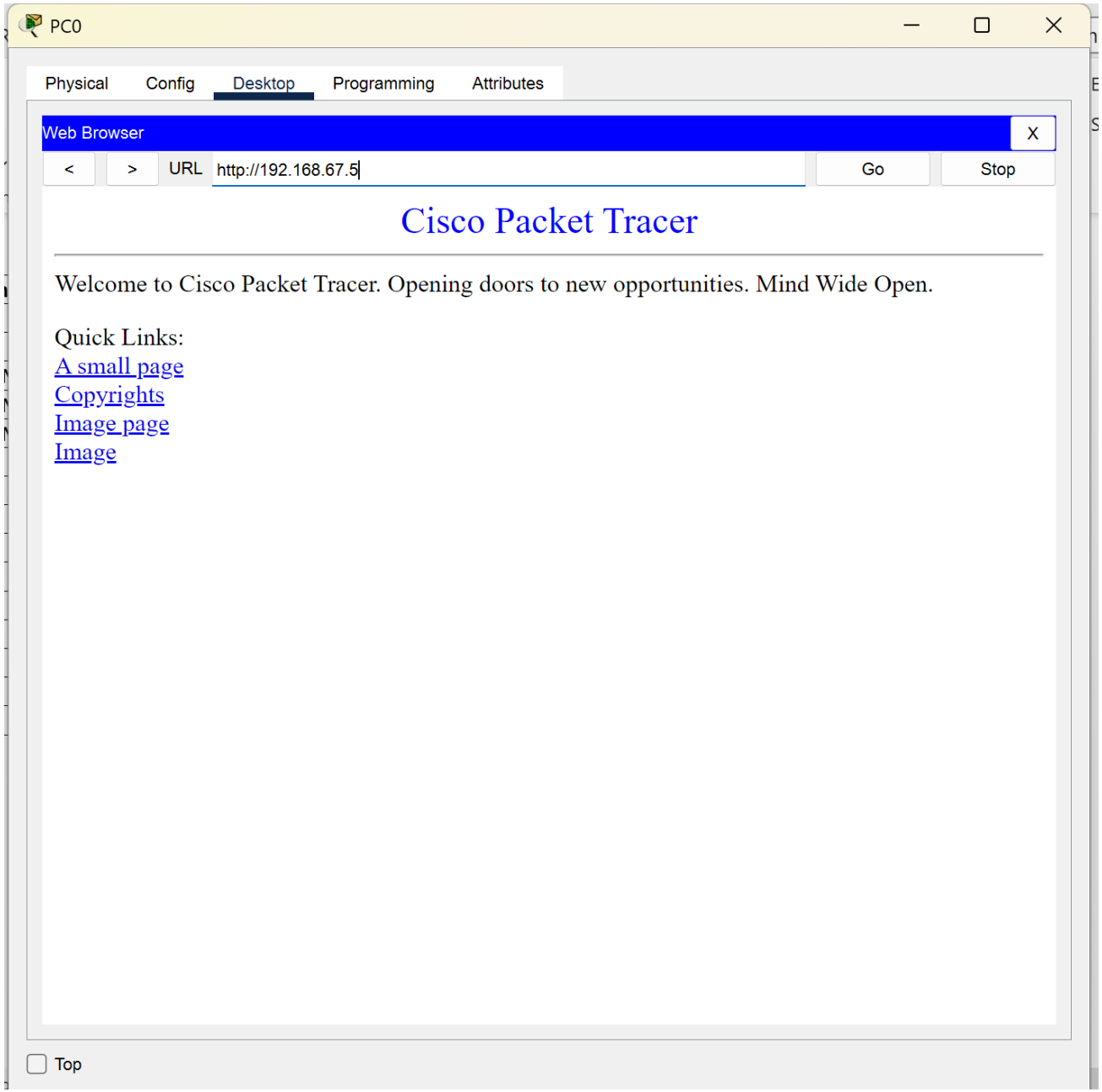
3- Testing connectivity from a pc at subnet 2 to a switch on subnet 1 (PC 4 -> SWITCH 1A)


PC4
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ip 192.168.67.249
Invalid Command.
C:\>ping 192.168.67.249
Pinging 192.168.67.249 with 32 bytes of data:
Request timed out.
Request timed out.
Reply from 192.168.67.249: bytes=32 time<1ms TTL=254
Reply from 192.168.67.249: bytes=32 time<1ms TTL=254
Ping statistics for 192.168.67.249:
Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.67.249
Pinging 192.168.67.249 with 32 bytes of data:
Reply from 192.168.67.249: bytes=32 time<1ms TTL=254
Reply from 192.168.67.249: bytes=32 time<1ms TTL=254
Reply from 192.168.67.249: bytes=32 time<1ms TTL=254
Reply from 192.168.67.249: bytes=32 time<1ms TTL=254
Ping statistics for 192.168.67.249:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>

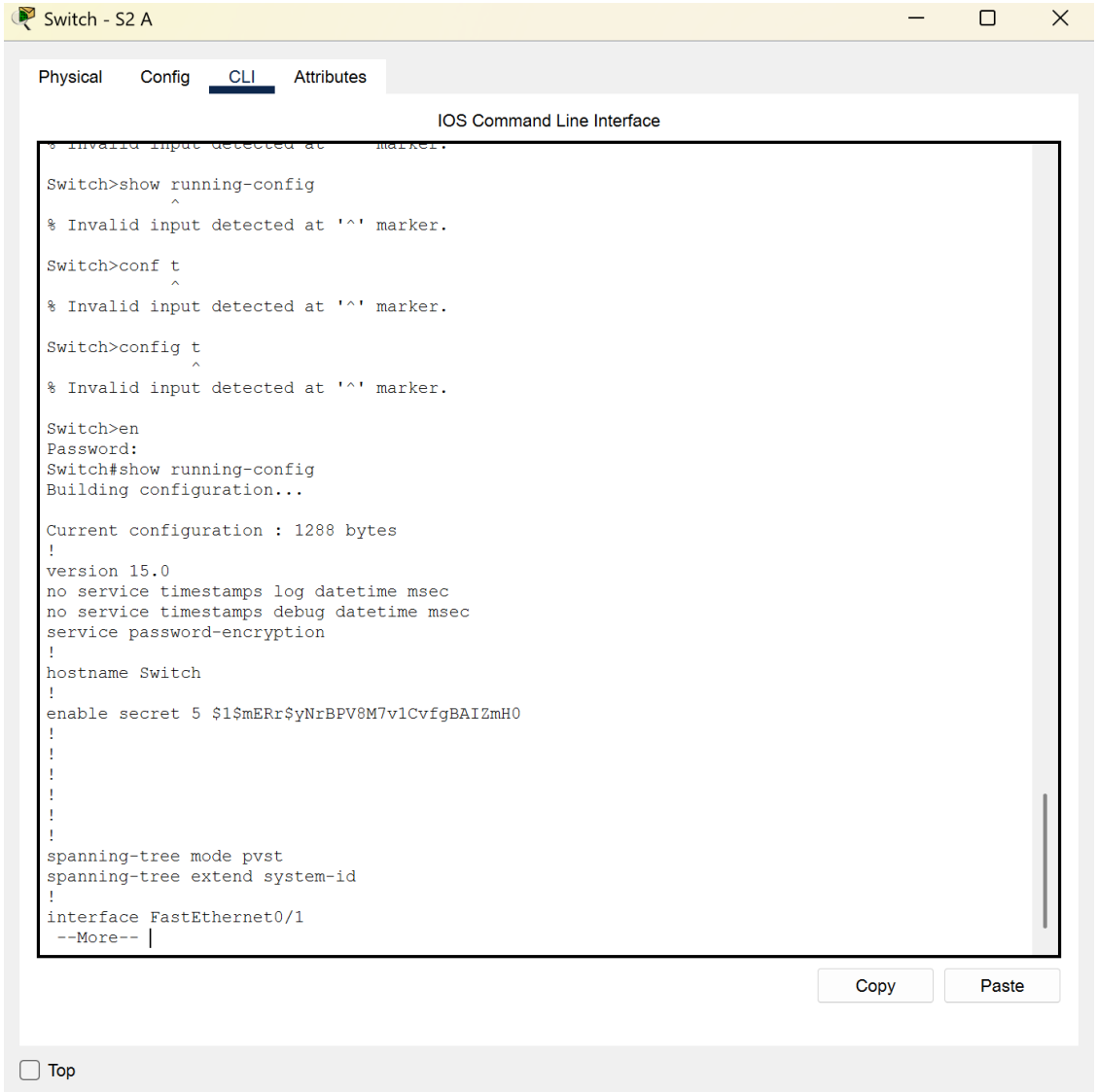
4- Testing connectivity from a Server at subnet 2 to a PC on subnet 1 (SERVER 1 -> PC 3)



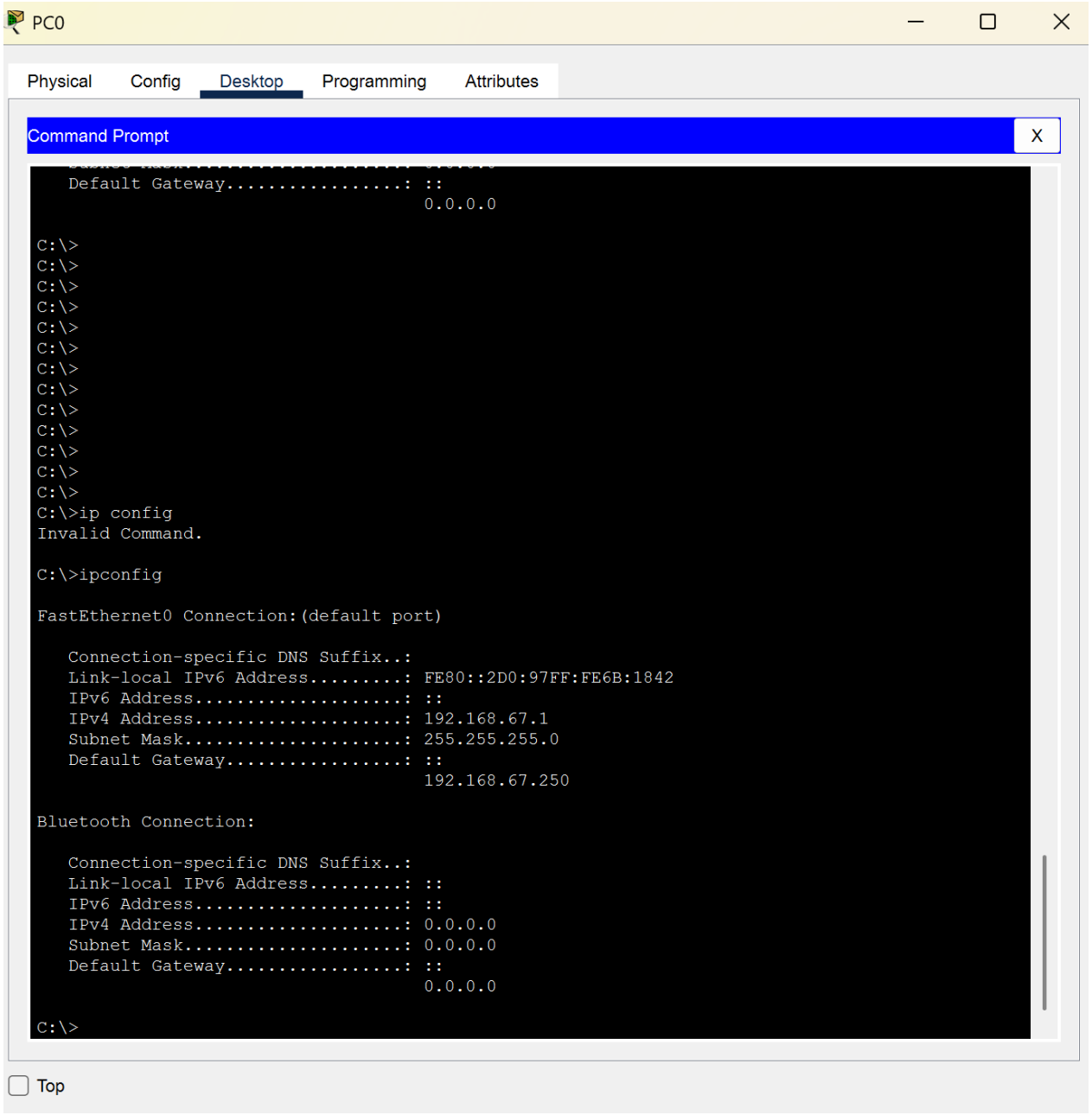
5- Accessing webserver of the server on subnet 2 from a computer on a subnet 1 (PC 0 -> SERVER 1)


PC0
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://192.168.67.5
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
A small page
Copyrights
Image page
Image
Top

6- Accessing running configuration from switcher 2



7- Ip addressing information from a pc


PC0
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Default Gateway.....: ::
0.0.0.0
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ip config
Invalid Command.
C:\>ipconfig
FastEthernet0 Connection:(default port)
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: FE80::2D0:97FF:FE6B:1842
IPv6 Address.....: ::
IPv4 Address.....: 192.168.67.1
Subnet Mask.....: 255.255.255.0
Default Gateway.....: ::
192.168.67.250
Bluetooth Connection:
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
0.0.0.0
C:\>
Top