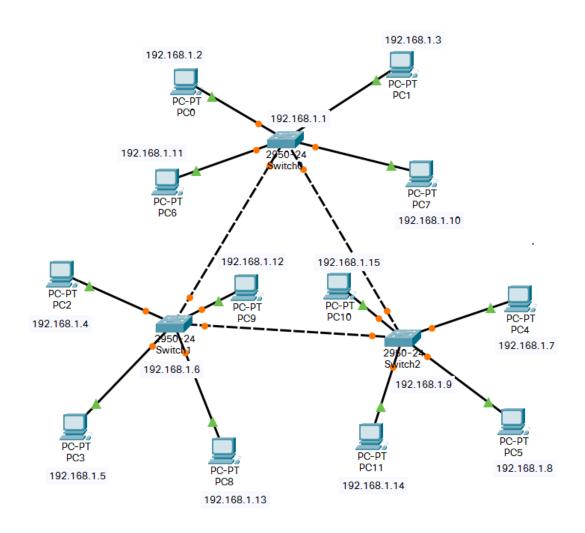
CSE3501 - Information Security Analysis and Audit ARYAMAN MISHRA

19BCE1027

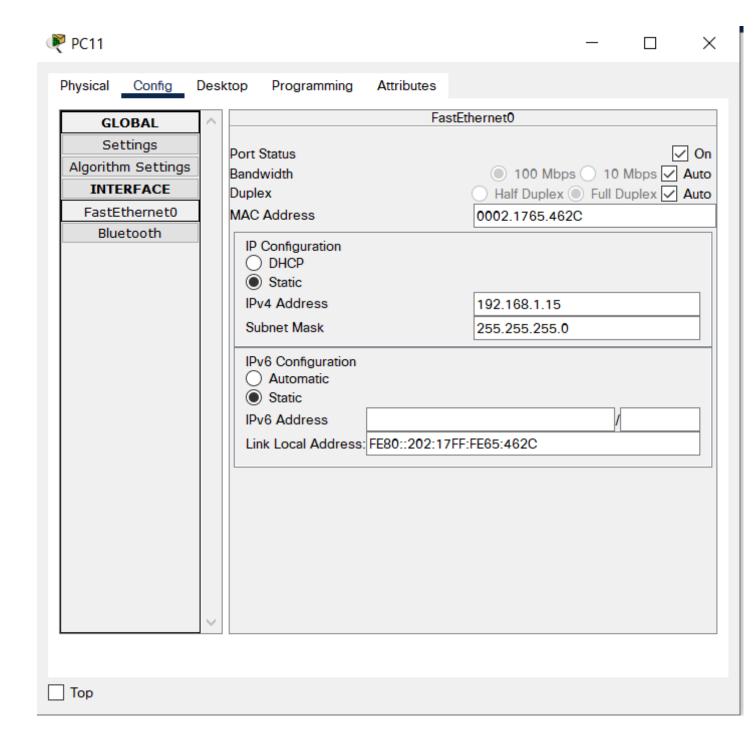
EXPERIMENT 2-SWITCH CONFIGURATION

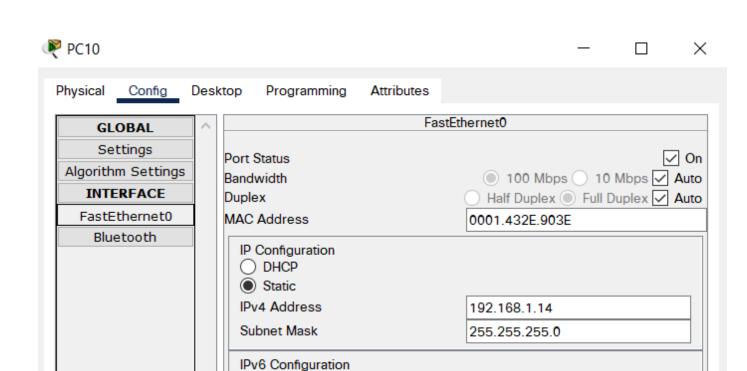
Step 1:Create Topology using PC devices and switches.



Step 2:Assign IPv4 addresses to all PC devices.

₹ PC5			- □ ×
Physical Config I	Des	ktop Programming Attributes	
GLOBAL	\wedge	Fa	stEthernet0
Settings		Port Status	
Algorithm Settings		Port Status Bandwidth	On 100 Mbps 10 Mbps Auto
INTERFACE		Duplex	Half Duplex Full Duplex Auto
FastEthernet0		MAC Address	0090.21CB.7739
Bluetooth	>	IP Configuration DHCP Static IPv4 Address Subnet Mask IPv6 Configuration Automatic Static IPv6 Address Link Local Address: FE80::290:2	192.168.1.8 255.255.255.0
Тор			

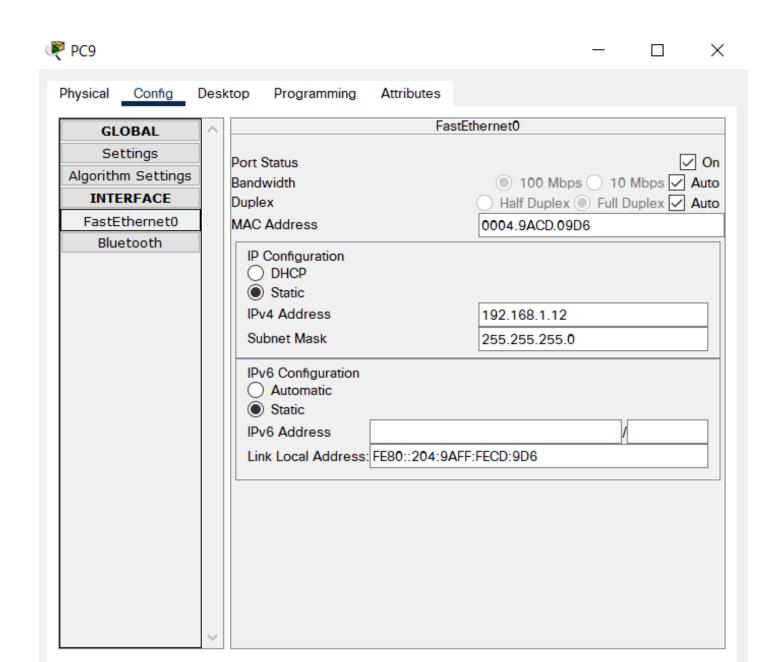




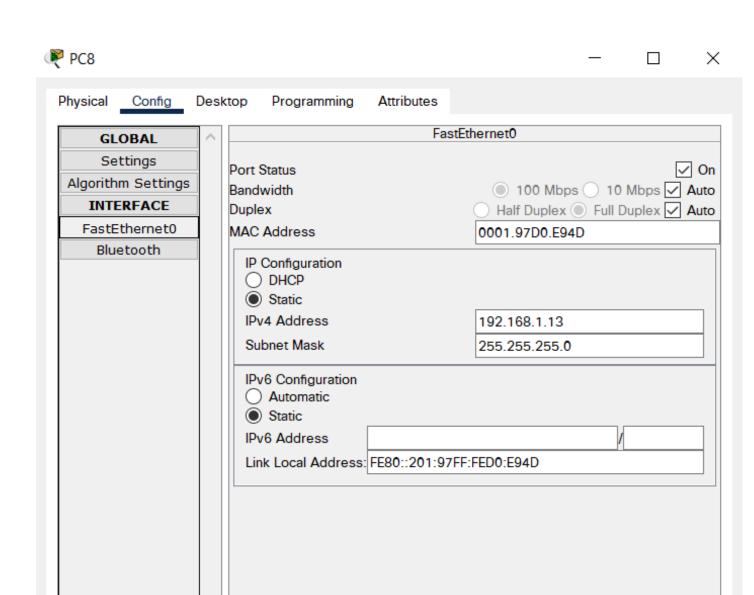
Link Local Address: FE80::201:43FF:FE2E:903E

AutomaticStaticIPv6 Address

Тор

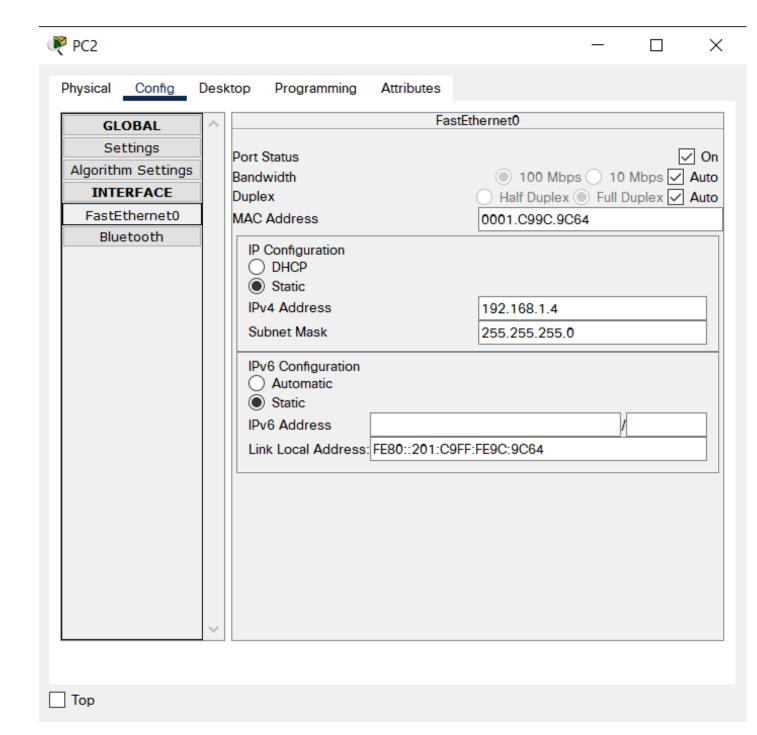


Тор



Top

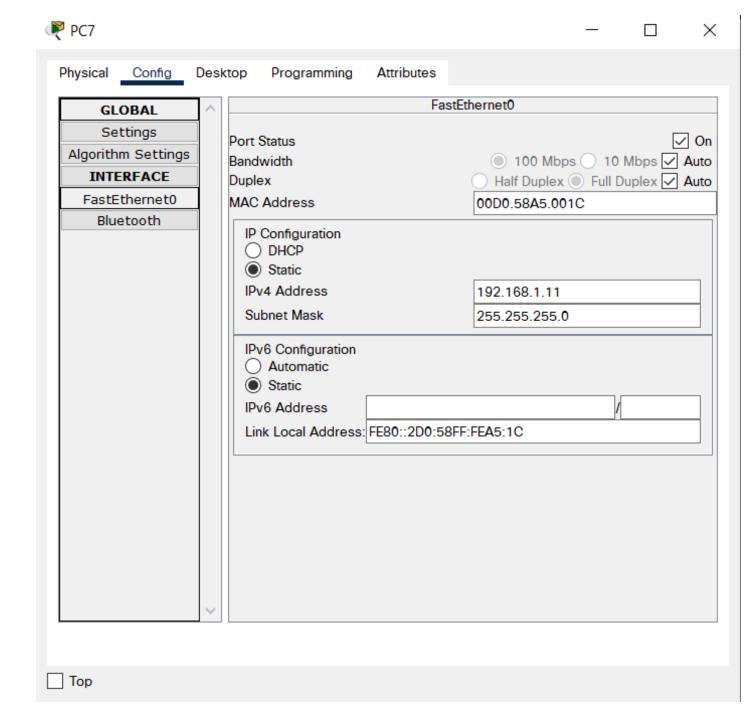
PC3		- 🗆 X				
Physical Config Desk	top Programming Attributes					
GLOBAL	FastEt	thernet0				
Settings	Port Status	On				
Alexanither Cathines	Bandwidth	● 100 Mbps ○ 10 Mbps ✓ Auto				
	Duplex	Half Duplex Full Duplex Auto				
	MAC Address	0060.3E44.4183				
Bluetooth	IP Configuration DHCP Static IPv4 Address Subnet Mask IPv6 Configuration Automatic Static IPv6 Address Link Local Address: FE80::260:3EFF	192.168.1.5 255.255.255.0				
Пор						

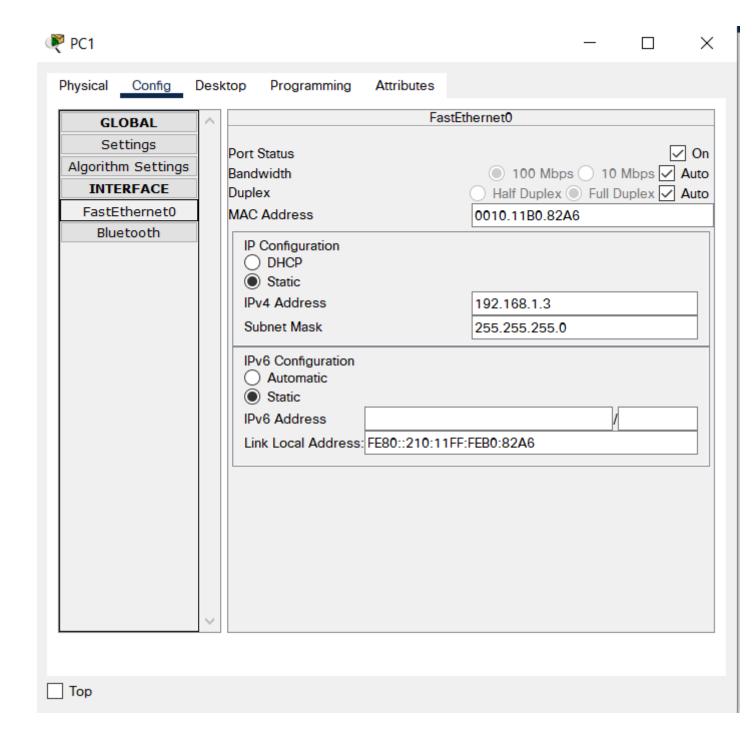




	\wedge	FastEthernet0							
Settings		Port Status	✓ 0						
Algorithm Settings		Bandwidth	● 100 Mbps ● 10 Mbps ✓ Auto						
INTERFACE		Duplex	Half Duplex Full Duplex Auto						
FastEthernet0		MAC Address	000C.8540.C13C						
Bluetooth		IP Configuration DHCP Static IPv4 Address	192.168.1.10						
		Subnet Mask	255.255.255.0						
		IPv6 Configuration Automatic Static IPv6 Address Link Local Address:	FE80::20C:85FF:FE40:C13C						

×

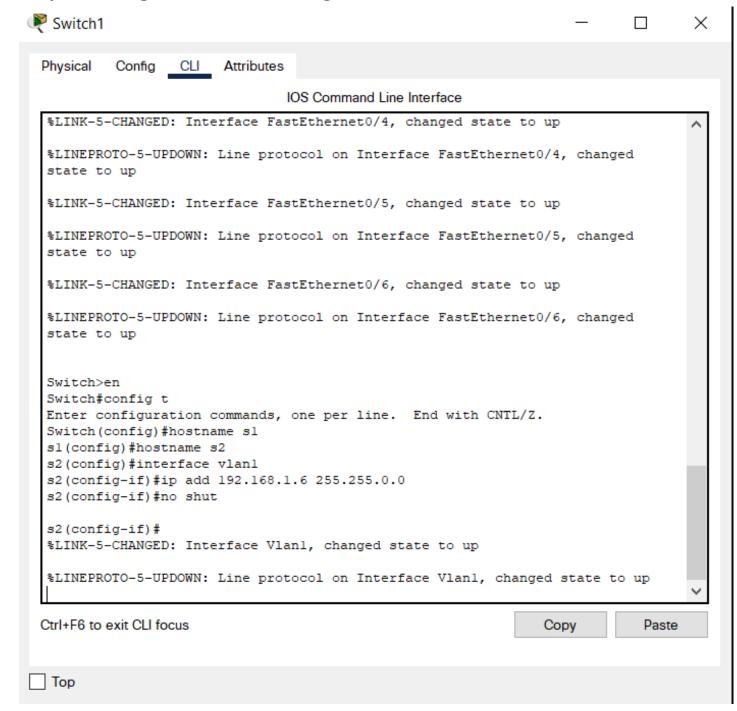




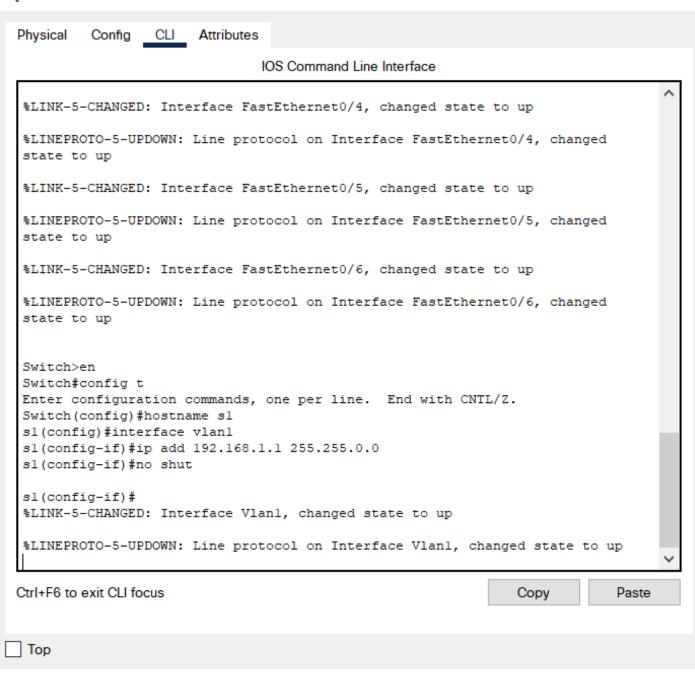
GLOBAL	\wedge		FastEthernet0
Settings			
Algorithm Settings		Port Status	<u></u> ✓ 0
INTERFACE		Bandwidth	● 100 Mbps ● 10 Mbps ✓ Auto
FastEthernet0		Duplex	Half Duplex Full Duplex Auto
Bluetooth		MAC Address	00D0.FF62.7934
Bidetootii		IP Configuration	
		O DHCP	
		Static	
		IPv4 Address	192.168.1.2
		Subnet Mask	255.255.255.0
		IPv6 Configuration	
		Automatic	
		Static	
		IPv6 Address	/
		Link Local Address: FE80::2D	00:FFFF:FE62:7934
	\vee		

PC4		- 🗆 X				
Physical Config Des	ktop Programming Attributes					
GLOBAL	Fasti	Ethernet0				
Settings	Port Status	✓ On				
Algorithm Settings	Bandwidth	100 Mbps 10 Mbps ✓ Auto				
INTERFACE	Duplex	○ Half Duplex ○ Full Duplex ✓ Auto				
FastEthernet0	MAC Address	00D0.FFB6.5C69				
Bluetooth	IP Configuration O DHCP					
	Static					
	IPv4 Address	192.168.1.7				
	Subnet Mask	255.255.255.0				
	IPv6 Configuration Automatic Static					
	IPv6 Address Link Local Address: FE80::2D0:FFF	F-FER6-5C69				
	Ellik Eddal Addi ddd. 1 Eddi. Eddi. 1					
_						
Тор						

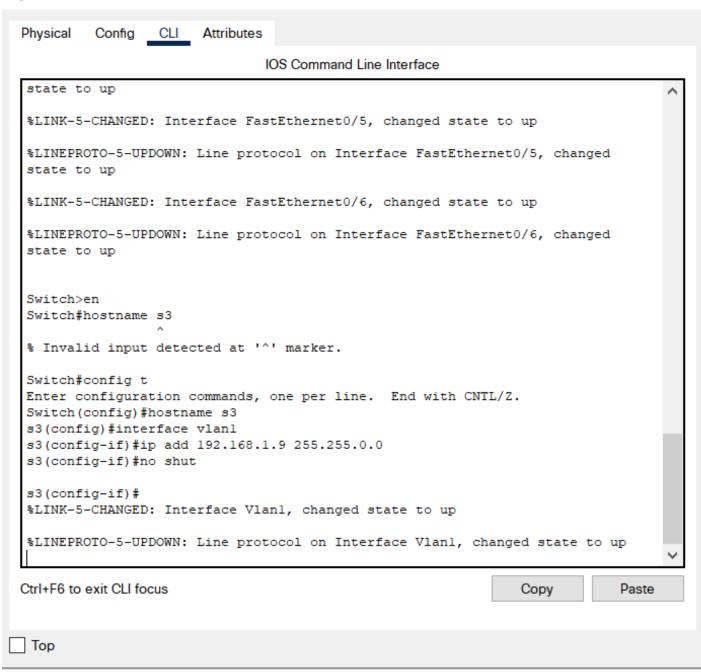
Step 3-Configure switches using CLI.





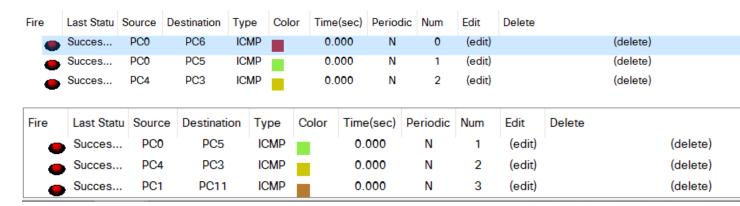






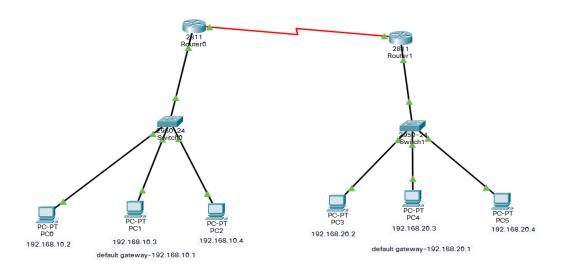
X

Step 4-Simulate Results.

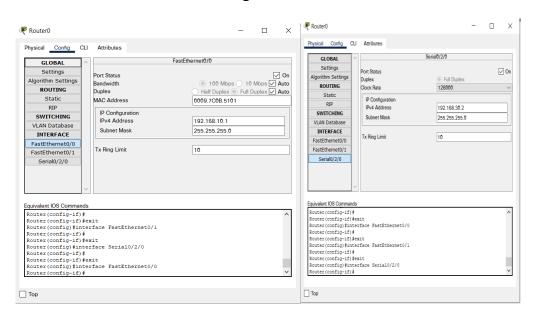


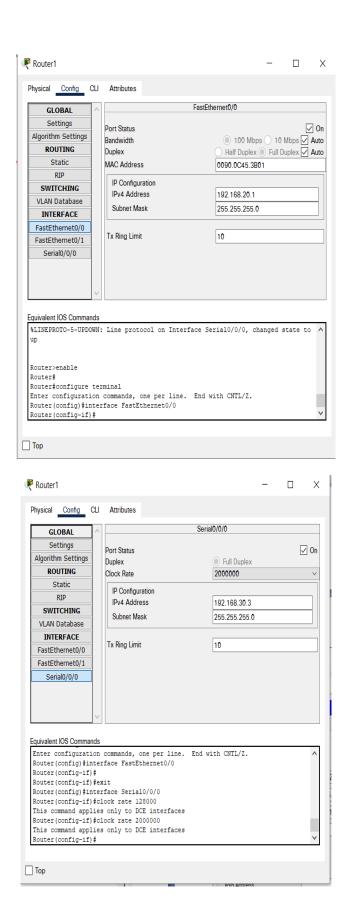
Result:Simulation of created topology has been completed successfully.

1.ROUTER CONFIGURATION

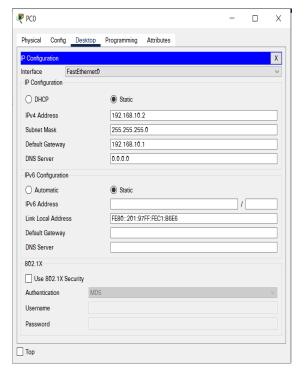


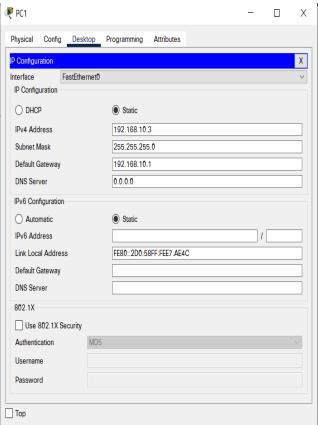
2.Insert IPv4 Address in the config menu of the routers and turn them on.

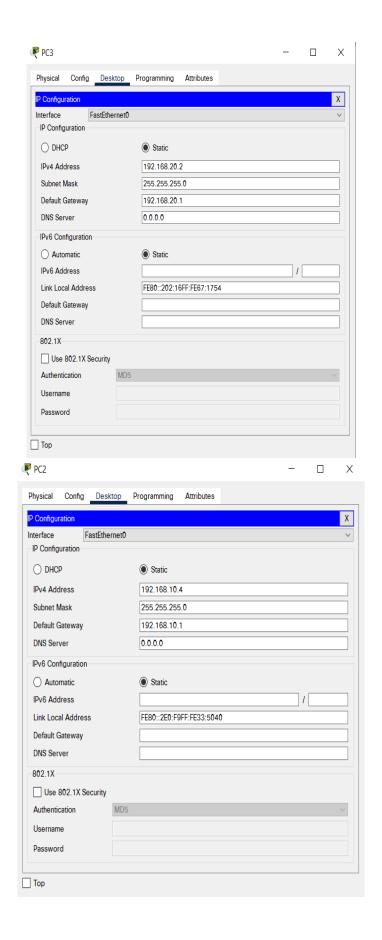


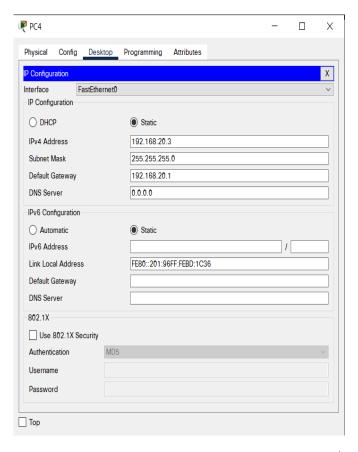


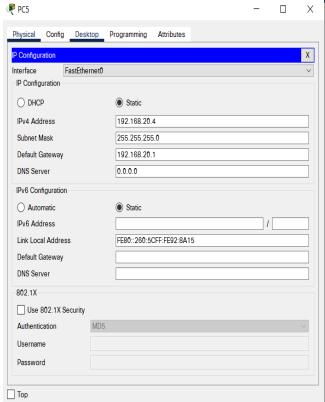
3.Enter IPv4 Address and Default gateway in the config menus of the PCs and set their interfaces to static.



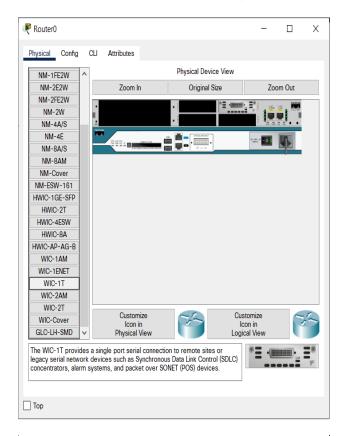


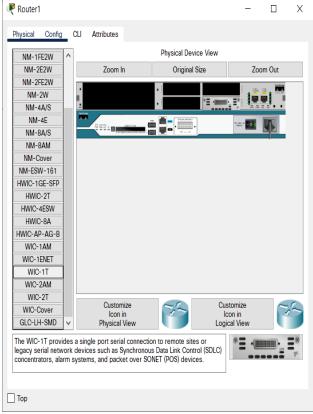




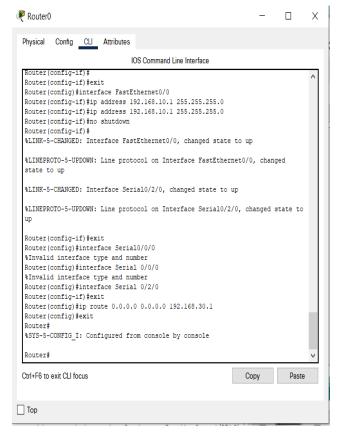


4.Add WIC-IT Port to connect the routers, and turn them on.





5. Define IP Route and Serial Port in the CLI menu of the routers.





6.Test proper connection of the PC devices using the simulation menu.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete		
•	Successful	PC0	PC4	ICMP		0.000	N	7	(edit))	(delete)	
•	Successful	PC0	Router0	ICMP		0.000	N	8	(edit))	(delete)	
•	Successful	PC0	PC3	ICMP		0.000	N	9	(edit))	(delete)	
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete		^
•	Successful	PC1	PC5	ICMP		0.000	N	10	(edit)		(delete)	
•	Successful	PC1	PC2	ICMP		0.000	N	11	(edit)		(delete)	
•	Successful	PC2	PC3	ICMP		0.000	N	12	(edit)		(delete)	~
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete		^
•	Successful	PC1	PC2	ICMP		0.000	N	11	(edit)		(delete)	1
•	Successful	PC2	PC3	ICMP		0.000	N	12	(edit)		(delete)	
												~

CONCLUSION:

DESIGNED TOPOLOGY HAS BEEN EXECUTED SUCCESFULLY.