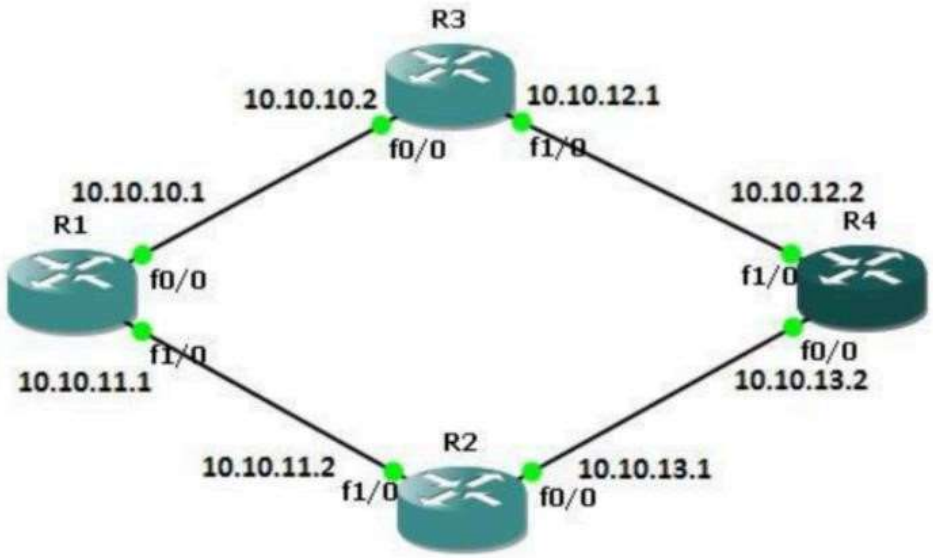
Assignment 7
Computer Networks

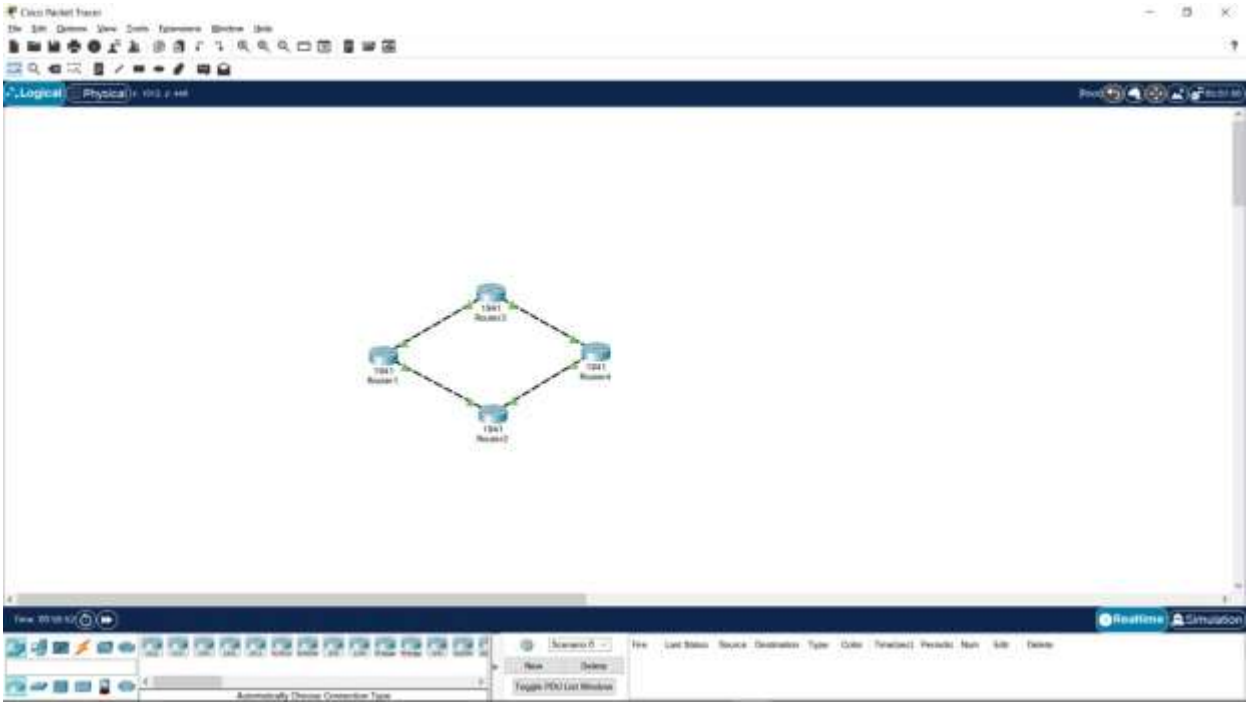
Name : SOURABH PATEL
Admission No : U19CS082

Create the below network, which follows static routing. Create the same network in two different ways,

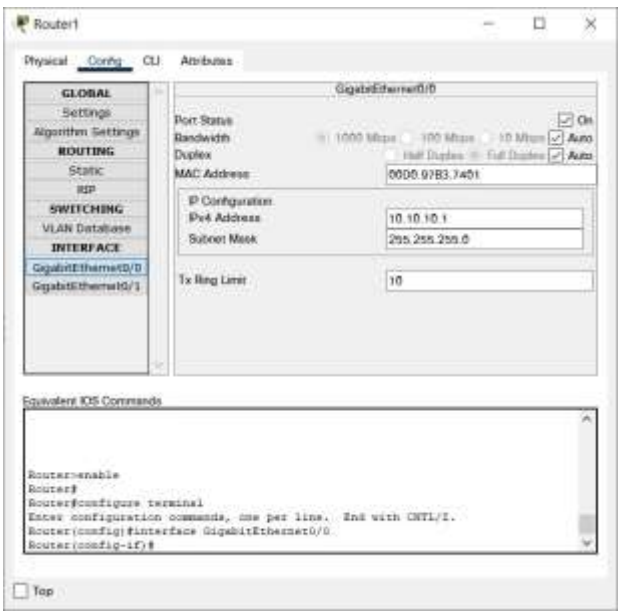
1) configuring IP address from GUI
2) Command line.

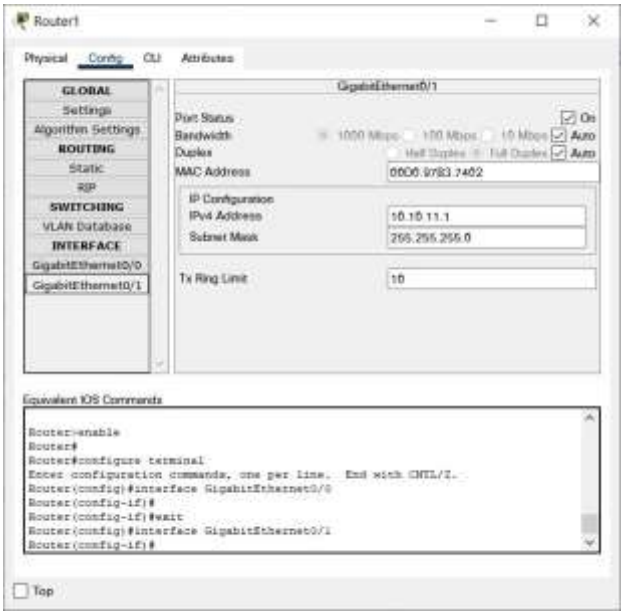


IP configuring using **GUI:**

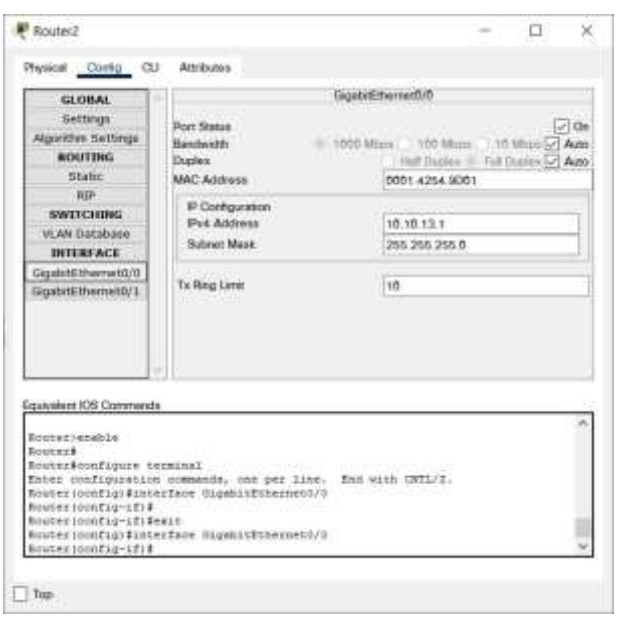


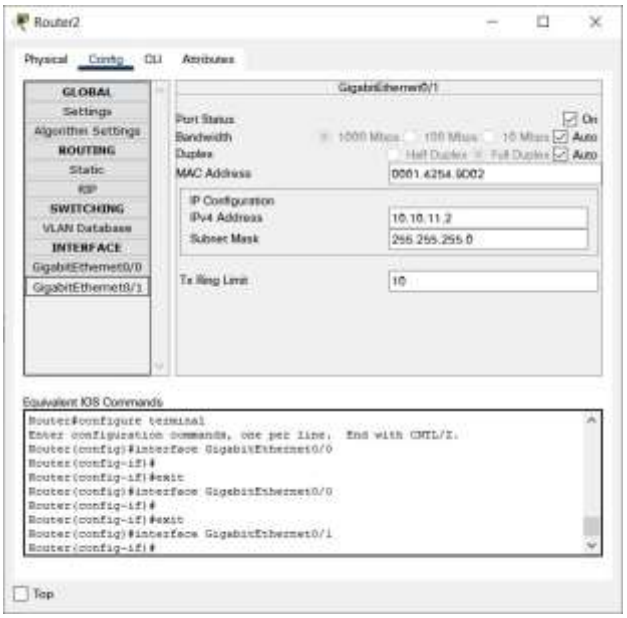
Configuring **router 1**:



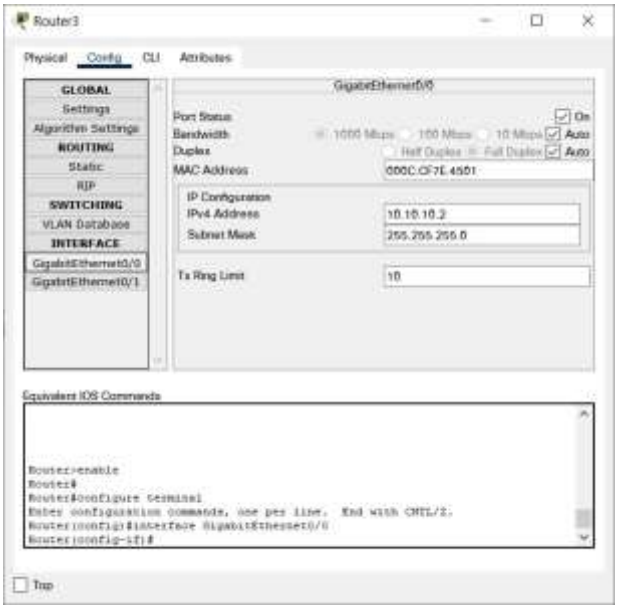


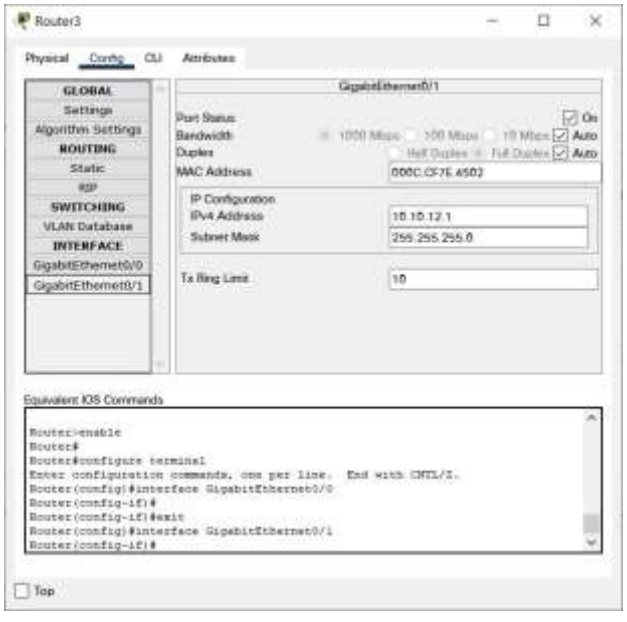
Configuring **router 2**:



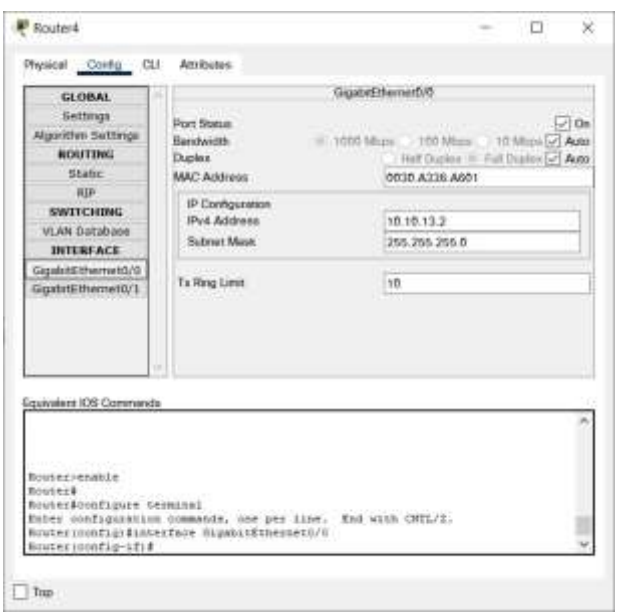


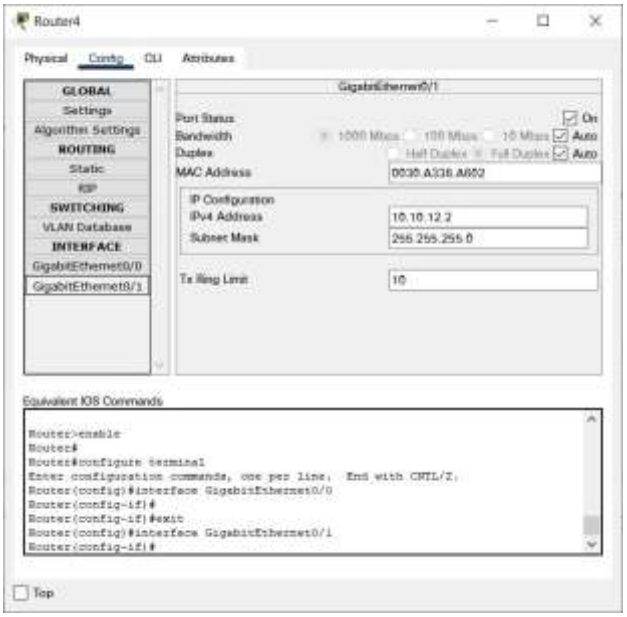
Configuring **router 3**:



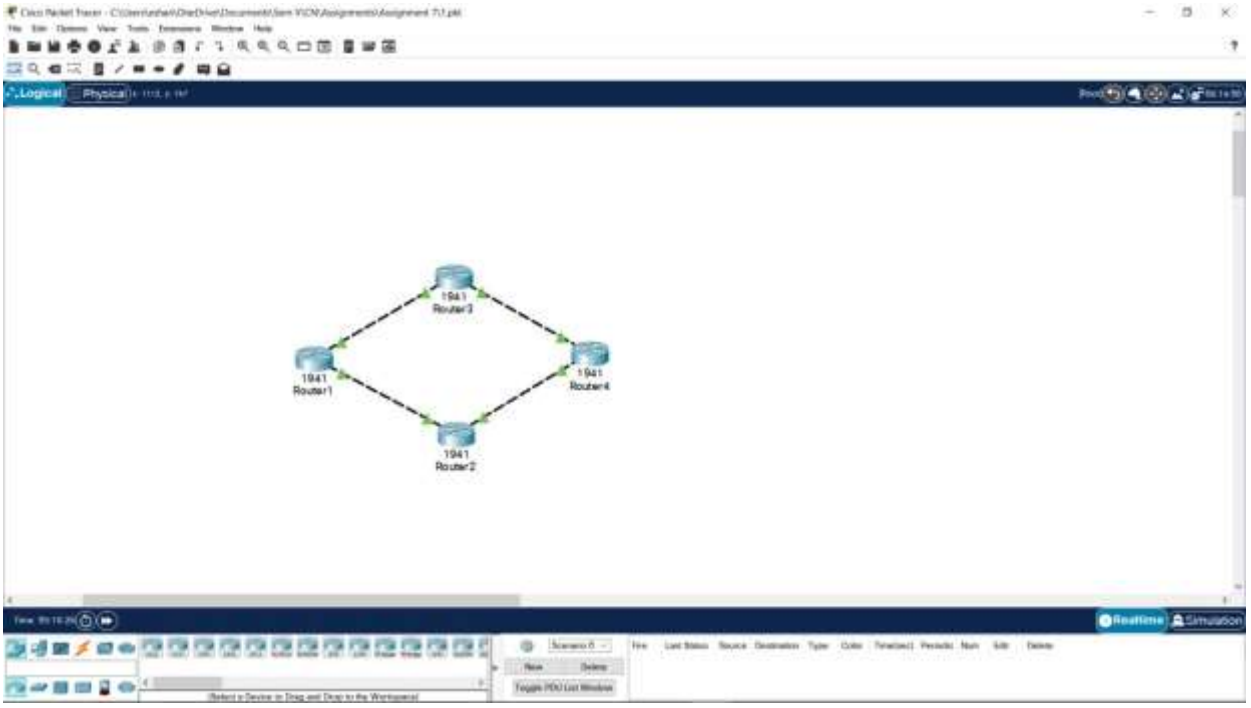


Configuring **router 4:**





IP configuring using **Command line:**



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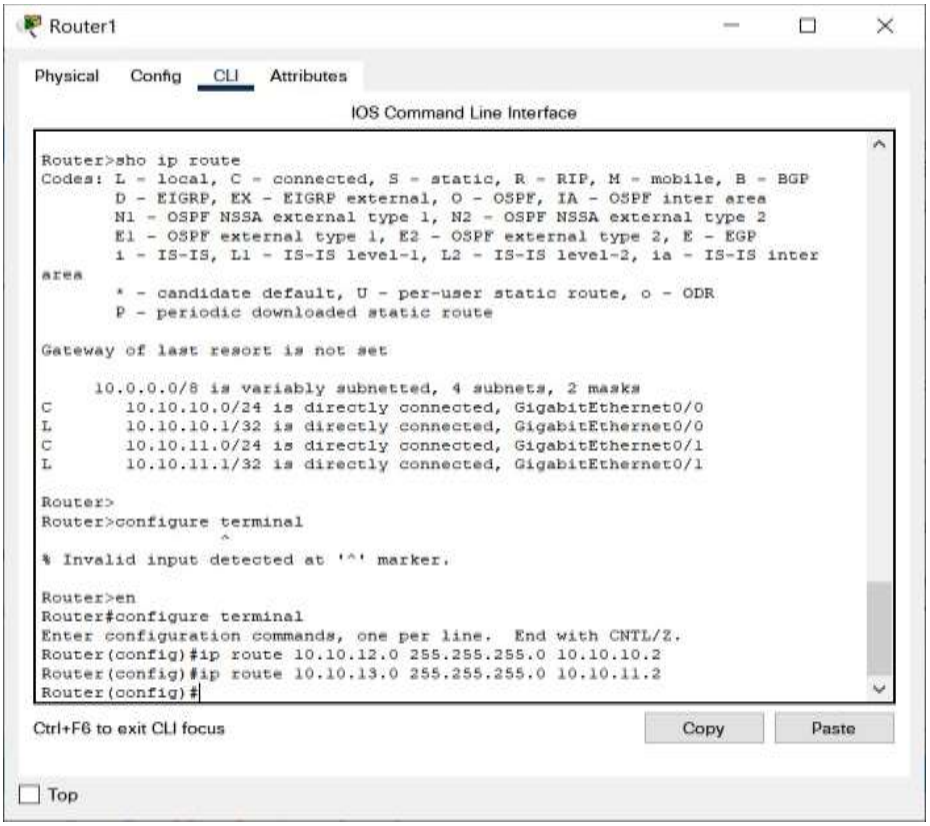
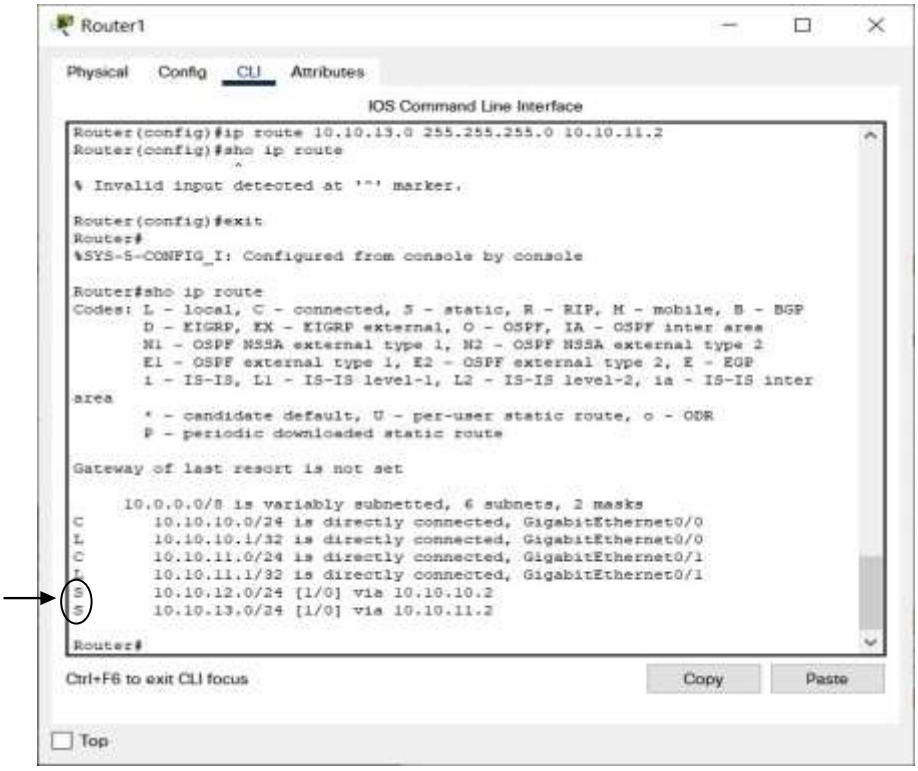
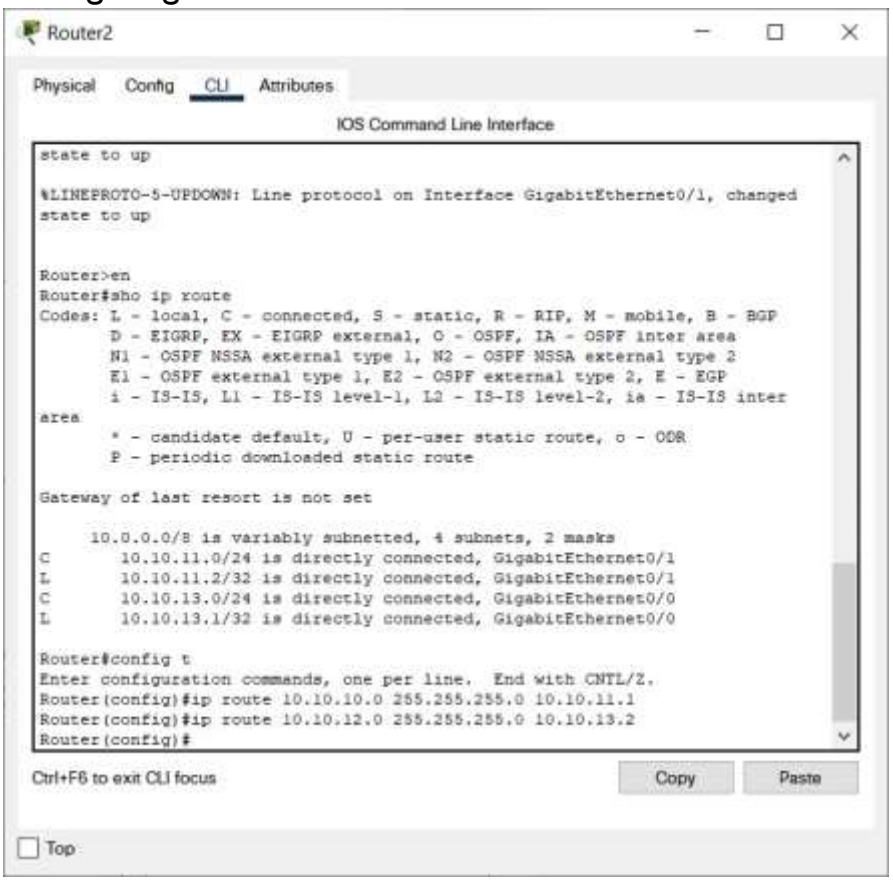
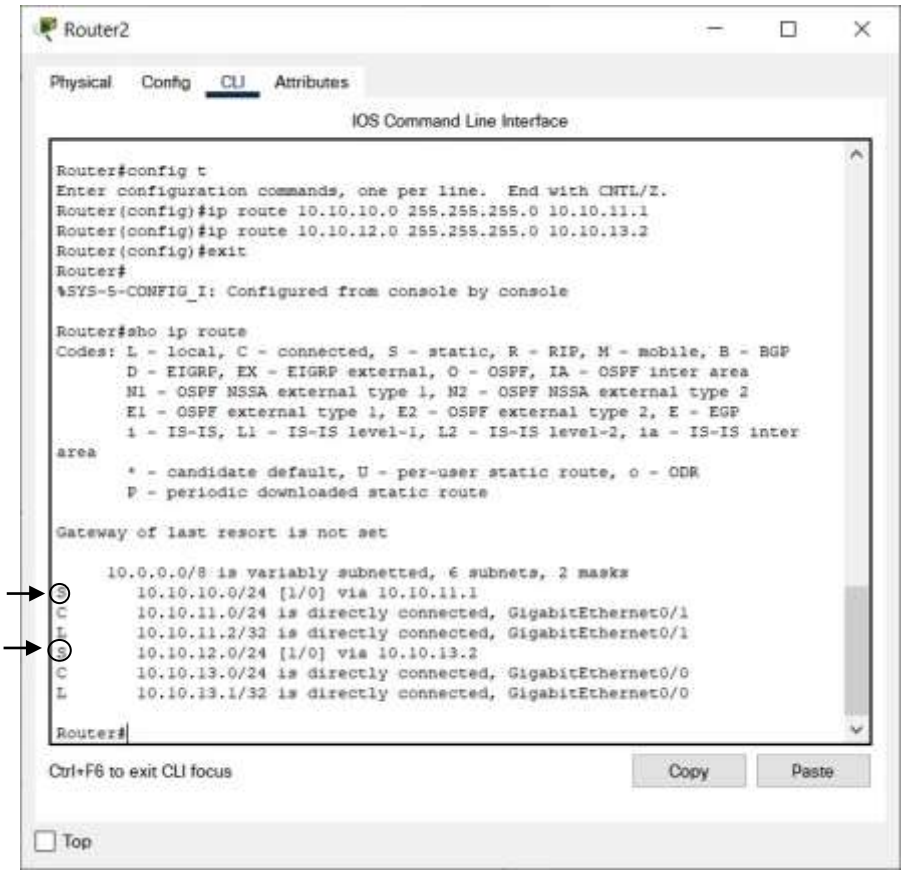


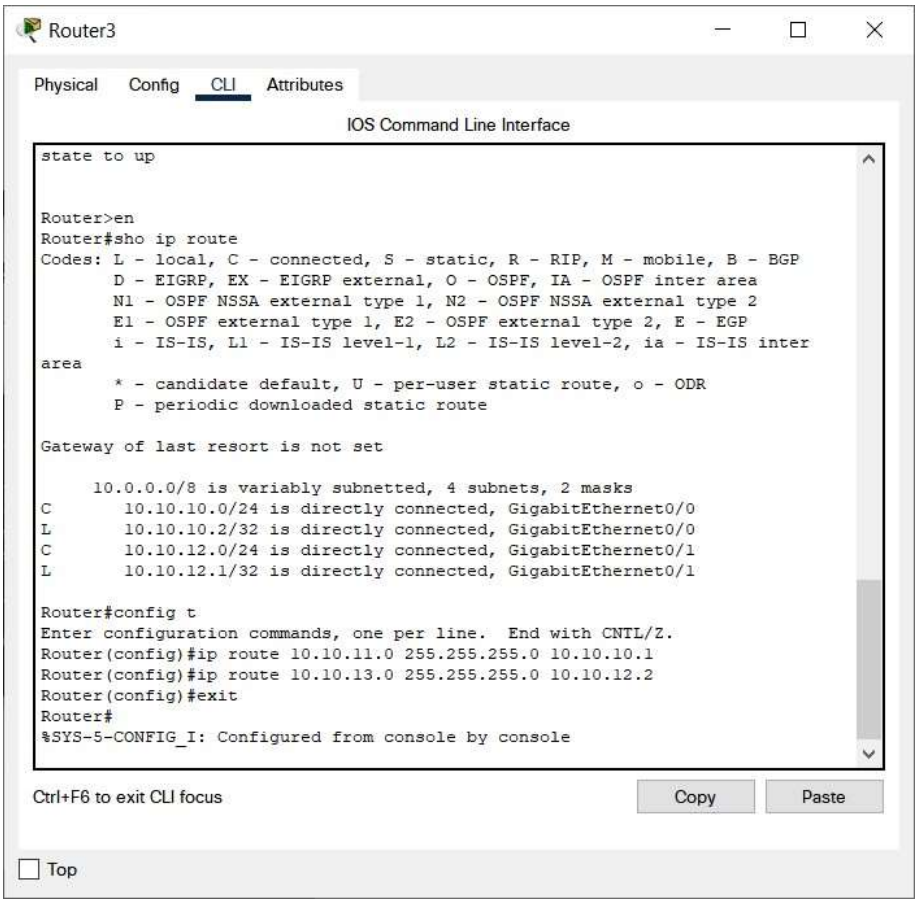


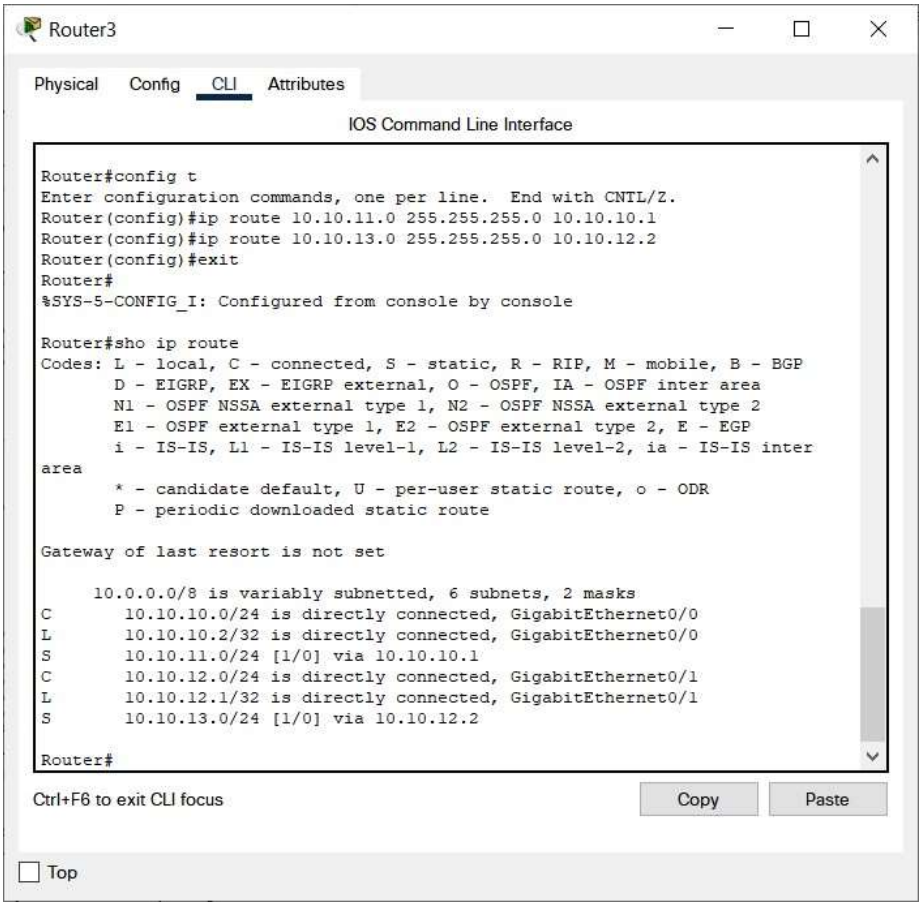
Configuring **router 8:**





Configuring **router 3:**


Router3
Physical
Config
CLI
Attributes
IOS Command Line Interface
state to up
Router>en
Router#sho ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C 10.10.10.0/24 is directly connected, GigabitEthernet0/0
L 10.10.10.2/32 is directly connected, GigabitEthernet0/0
C 10.10.12.0/24 is directly connected, GigabitEthernet0/1
L 10.10.12.1/32 is directly connected, GigabitEthernet0/1
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 10.10.11.0 255.255.255.0 10.10.10.1
Router(config)#ip route 10.10.13.0 255.255.255.0 10.10.12.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Ctrl+F6 to exit CLI focus
Copy
Paste
Top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i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
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* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
10.0.0.0/8 is variably subnetted, 6 subnets, 2 masks
C 10.10.10.0/24 is directly connected, GigabitEthernet0/0
L 10.10.10.2/32 is directly connected, GigabitEthernet0/0
S 10.10.11.0/24 [1/0] via 10.10.10.1
C 10.10.12.0/24 is directly connected, GigabitEthernet0/1
L 10.10.12.1/32 is directly connected, GigabitEthernet0/1
S 10.10.13.0/24 [1/0] via 10.10.12.2
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

Configuring **router 4:**