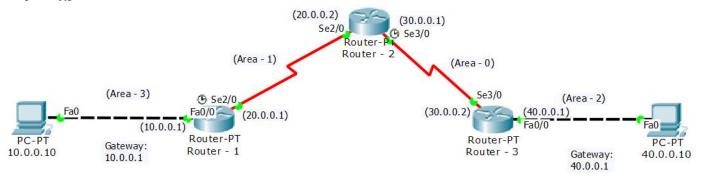
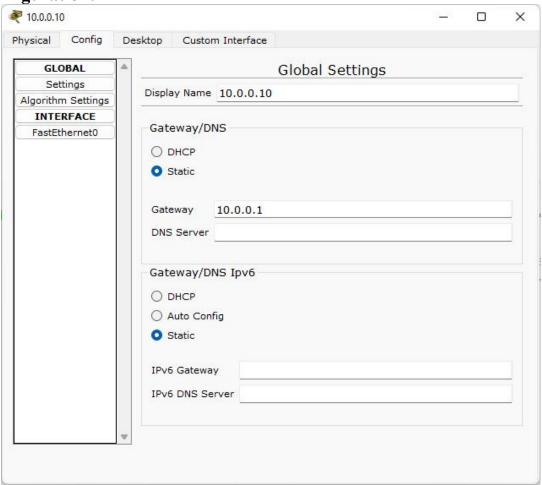
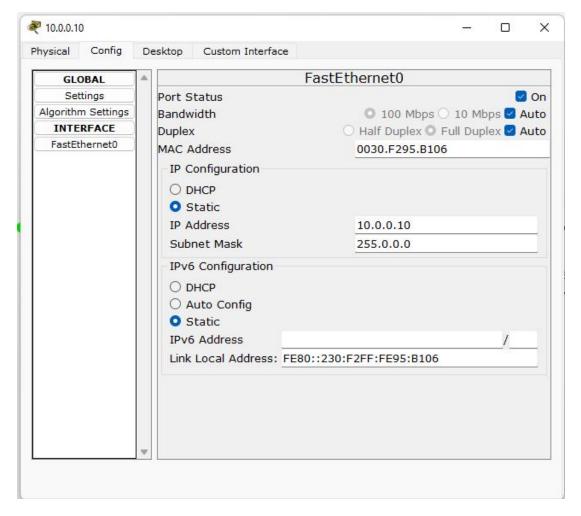
Experiment - 7

Topology:

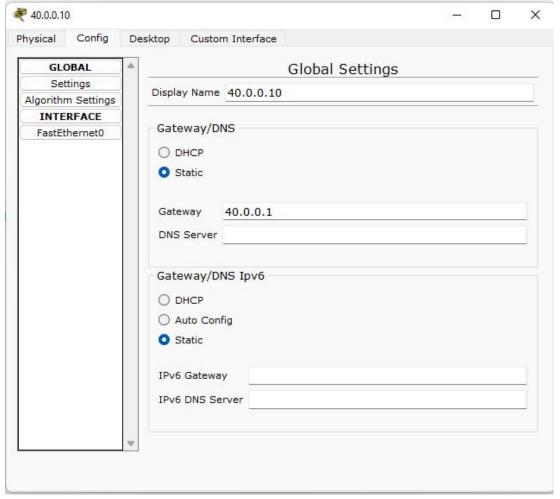


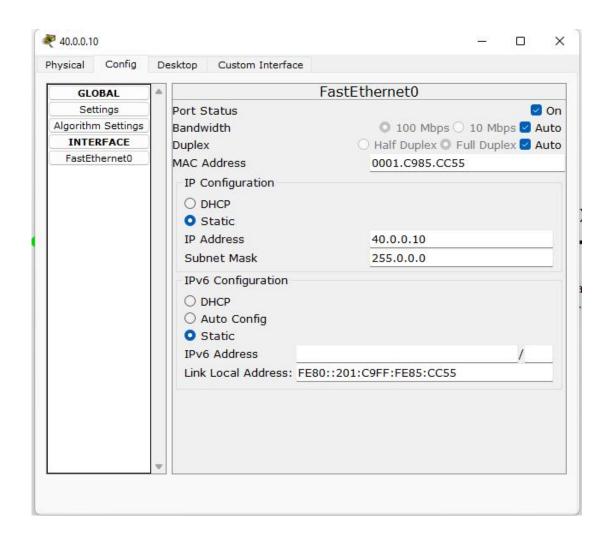
PC - 1 Configuration:



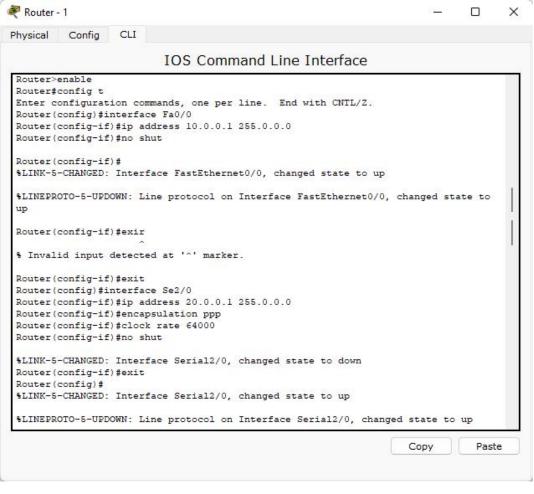


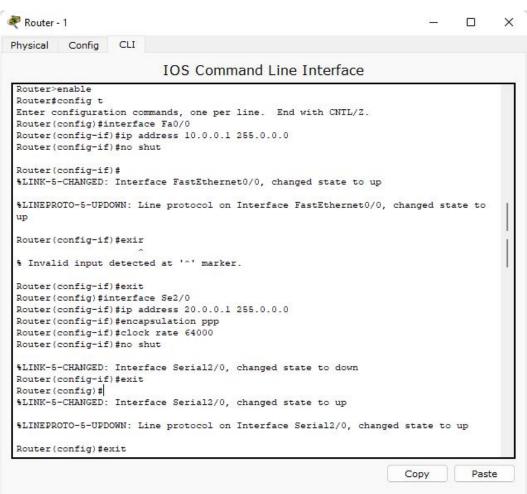
PC - 2 Configuration:

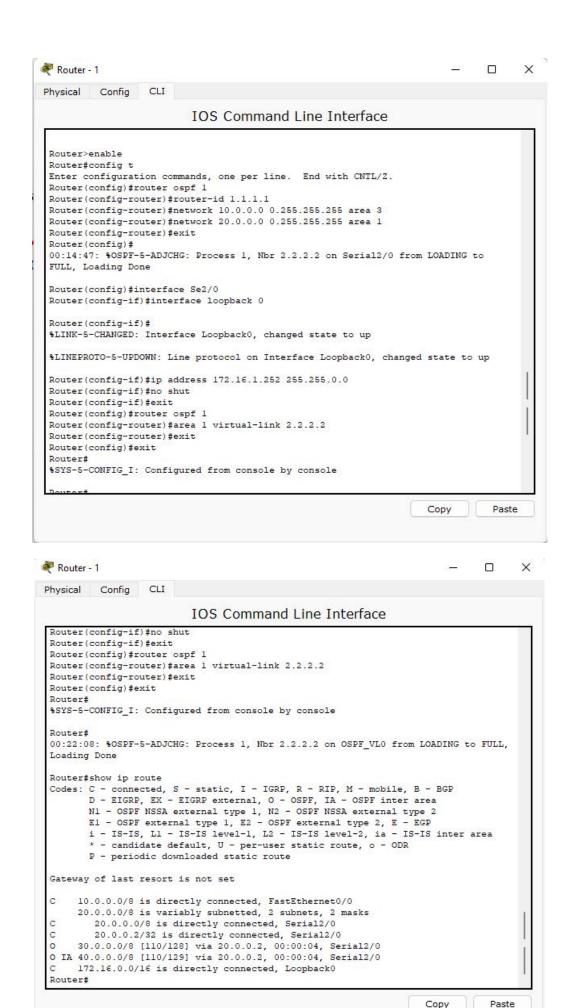




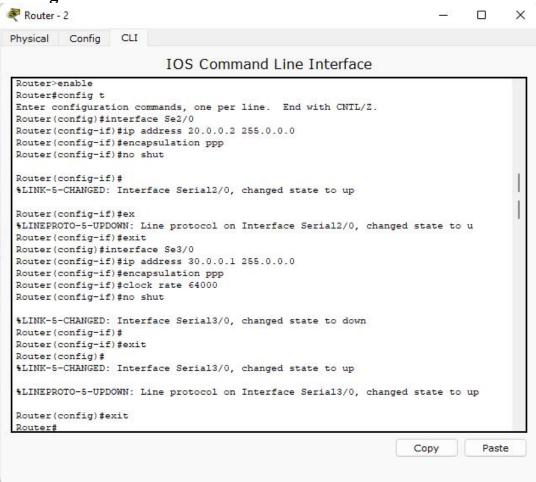
Router - 1 Configuration:

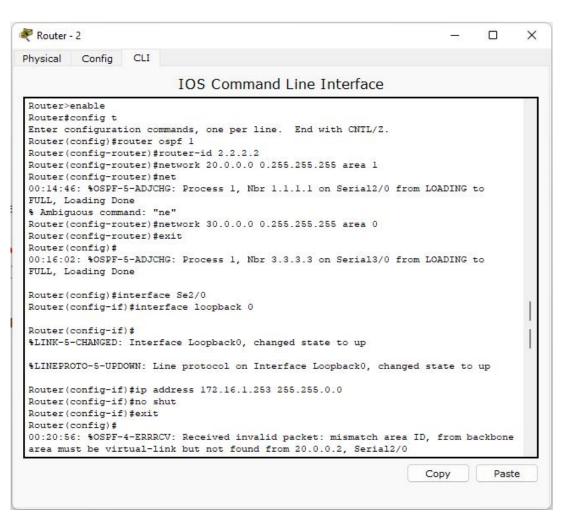






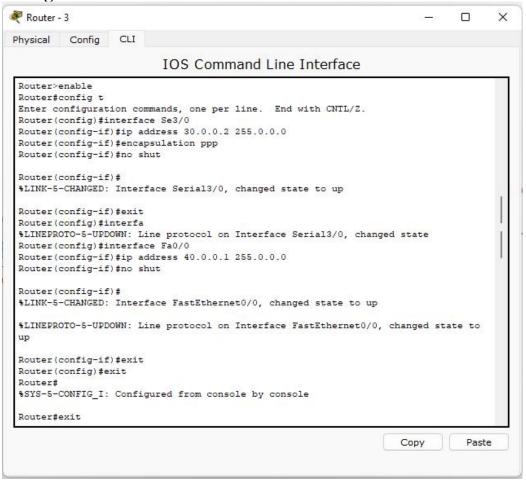
Router - 2 Configuration:

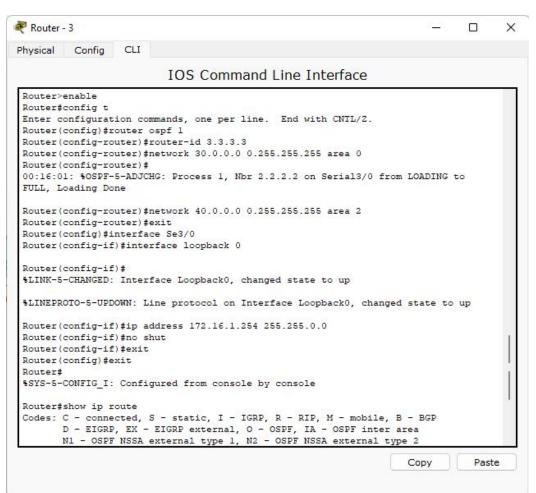


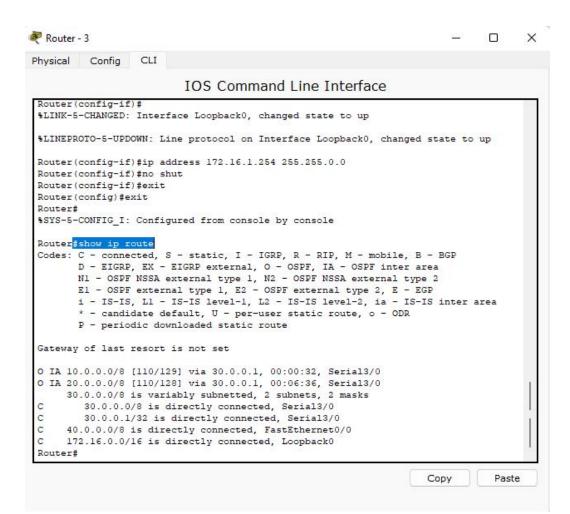


```
Router - 2
                                                                            X
Physical Config CLI
                          IOS Command Line Interface
 00:21:06: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone
 area must be virtual-link but not found from 20.0.0.2, Serial2/0
 Router (config) #router os
 00:21:16: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone
 area must be virtual-link but not found from 20.0.0.2, Serial2/0
 % Incomplete command.
 Router(config) #router ospf 1
 Router (config-router) #
 00:21:26: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone
 area must be virtual-link but not found from 20.0.0.2, Serial2/0
 Router(config-router) #area 1 vitual-1
 00:21:36: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone
 area must be virtual-link but not found from 20.0.0.2, Serial2/0
 % Invalid input detected at '^' marker.
 Router(config-router) #area 1 vitual-link 1.1.1.1
 % Invalid input detected at '^' marker.
 Router(config-router)#
 00:21:46: %OSPF-4-ERRRCV: Received invalid packet: mismatch area ID, from backbone
 area must be virtual-link but not found from 20.0.0.2, Serial2/0
 Router(config-router) #area 1 virtual-link 1.1.1.1
 Router(config-router) #exit
                                                                    Copy
                                                                                Paste
Router - 2
                                                                              X
Physical Config CLI
                          IOS Command Line Interface
 Router(config-router) #exit
 Router (config) #exit
 Router#
 %SYS-5-CONFIG_I: Configured from console by console
 00:22:06: %OSPF-5-ADJCHG: Process 1, Nbr 1.1.1.1 on OSPF_VLO from LOADING to FULL,
 Loading Done
 Router#show ip route
 Codes: C - connected, S - static, I - IGRP, 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
 O IA 10.0.0.0/8 [110/65] via 20.0.0.1, 00:00:04, Serial2/0
     20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
         20.0.0.0/8 is directly connected, Serial2/0
         20.0.0.1/32 is directly connected, Serial2/0
      30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
         30.0.0.0/8 is directly connected, Serial3/0
         30.0.0.2/32 is directly connected, Serial3/0
 O IA 40.0.0.0/8 [110/65] via 30.0.0.2, 00:06:03, Serial3/0
      172.16.0.0/16 is directly connected, Loopback0
 Router#
                                                                    Сору
                                                                               Paste
```

Router - 3 Configuration:

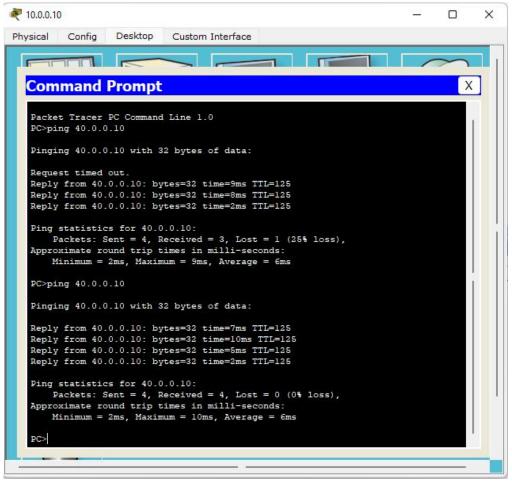






Output:

Pinging from PC - 1 to PC - 2:



Pinging from PC - 2 to PC - 1:

