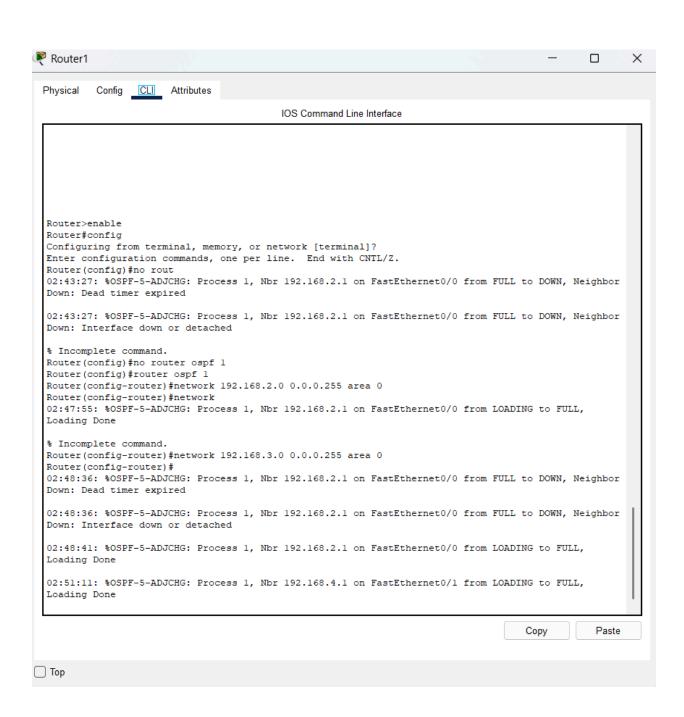
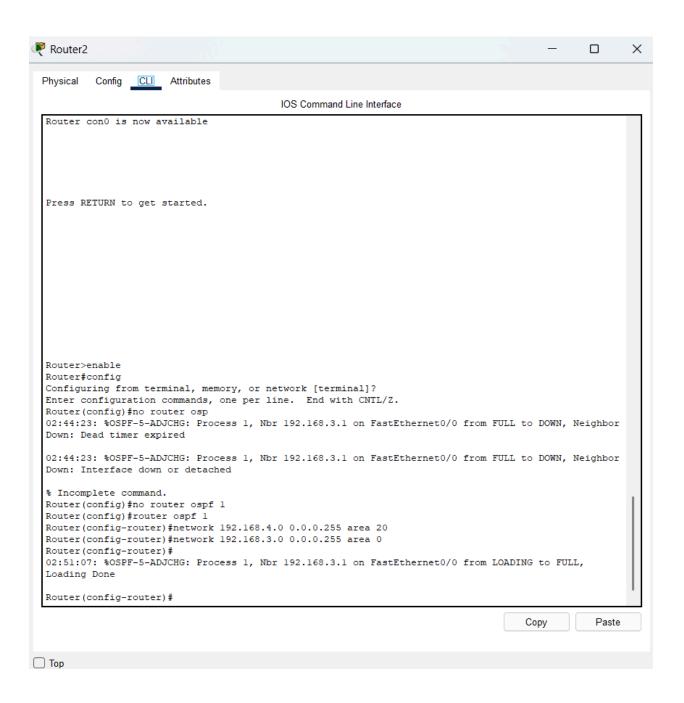
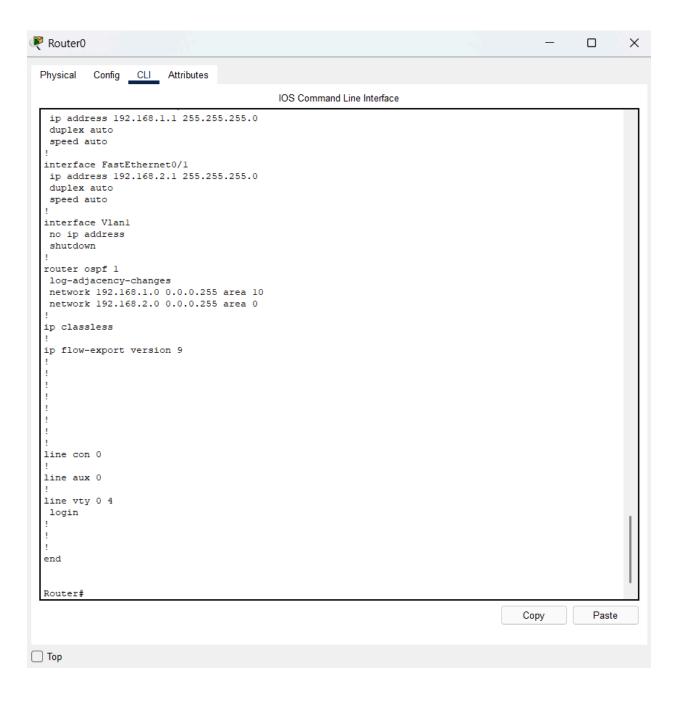
OSPF Multi Area Adding networks

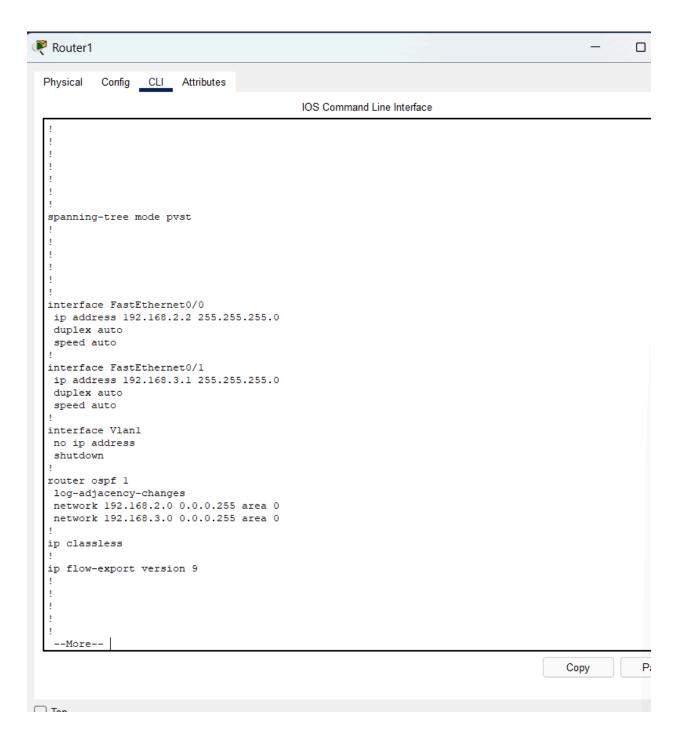
```
Router0
                                                                                                X
 Physical
         Config CLI Attributes
                                          IOS Command Line Interface
 ip classless
 ip flow-export version 9
 line con 0
  line aux 0
 line vty 0 4
  login
  end
  Router#config
  Configuring from terminal, memory, or network [terminal]?
  Enter configuration commands, one per line. End with CNTL/Z.
 Router(config) #router ospf 1
  Router(config-router) #network 192.168.1.0 0.0.0.255 area 10
  Router(config-router) #network 192.168.2.0 0.0.0.255 area 0
  Router(config-router)#
  02:48:01: %OSPF-5-ADJCHG: Process 1, Nbr 192.168.3.1 on FastEthernet0/1 from LOADING to FULL,
 Loading Done
  02:48:41: %OSPF-5-ADJCHG: Process 1, Nbr 192.168.3.1 on FastEthernet0/1 from FULL to DOWN, Neighbor
 Down: Dead timer expired
  02:48:41: %OSPF-5-ADJCHG: Process 1, Nbr 192.168.3.1 on FastEthernet0/1 from FULL to DOWN, Neighbor
  Down: Interface down or detached
  02:48:46: %OSPF-5-ADJCHG: Process 1, Nbr 192.168.3.1 on FastEthernet0/1 from LOADING to FULL,
  Loading Done
                                                                                                 Paste
                                                                                     Copy
☐ Top
```

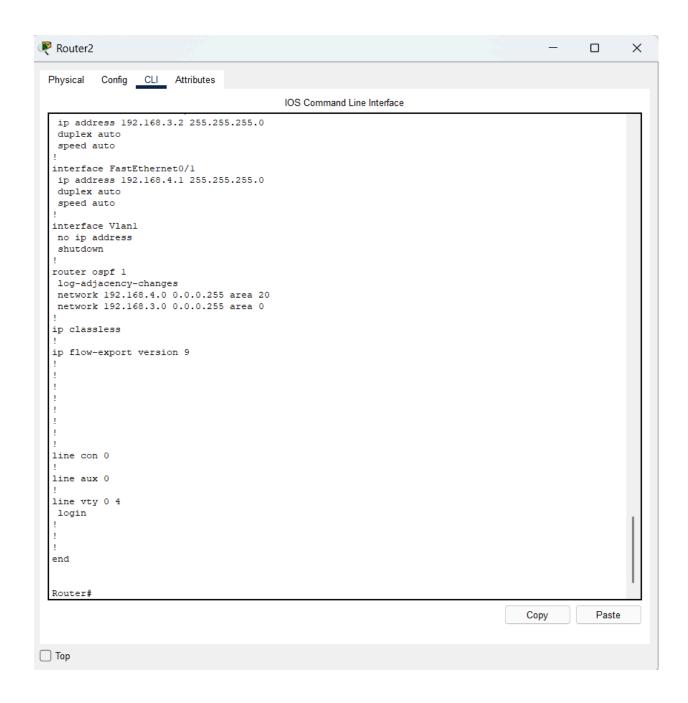




Commands - ip show run and different commands







```
Router0
                                                                                                   X
 Physical Config CLI Attributes
                                            IOS Command Line Interface
  end
  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
         ^{\star} - candidate default, U - per-user static route, o - ODR
         P - periodic downloaded static route
  Gateway of last resort is not set
       192.168.1.0/24 is directly connected, FastEthernet0/0
      192.168.2.0/24 is directly connected, FastEthernet0/1
      192.168.3.0/24 [110/2] via 192.168.2.2, 00:11:55, FastEthernet0/1
  O IA 192.168.4.0/24 [110/3] via 192.168.2.2, 00:11:55, FastEthernet0/1
  Router#show ip route ospf
     192.168.3.0 [110/2] via 192.168.2.2, 00:12:02, FastEthernet0/1
  O IA 192.168.4.0 [110/3] via 192.168.2.2, 00:12:02, FastEthernet0/1
  Router#show ip protocols
  Routing Protocol is "ospf 1"
  Outgoing update filter list for all interfaces is not set
   Incoming update filter list for all interfaces is not set
   Router ID 192.168.2.1
   Number of areas in this router is 2. 2 normal 0 stub 0 nssa
   Maximum path: 4
   Routing for Networks:
     192.168.1.0 0.0.0.255 area 10
      192.168.2.0 0.0.0.255 area 0
   Routing Information Sources:
                    Distance
                                    Last Update
     Gateway
                     110
     192.168.2.1
                                    00:14:46
     192.168.3.1
                           110
                                   00:12:16
     192.168.4.1
                                    00:12:15
                           110
    Distance: (default is 110)
  Router#
                                                                                                    Paste
                                                                                       Сору
☐ Top
```

Router#show ip ospf database OSPF Router with ID (192.168.2.1) (Process ID 1) Router Link States (Area 0) ADV Router Seq# Checksum L: 0x80000004 0x00ff9e 1 Link ID Age Checksum Link count 192.168.2.1 192.168.2.1 942 192.168.3.1 792 192.168.3.1 0x80000006 0x00d4d9 2 192.168.4.1 791 0x80000002 0x000495 1 192.168.4.1 Net Link States (Area 0) ADV Router 192.168.2.2 192.76 Seq# Age Checksum 192.168.3.1 987 0x80000001 0x00d273 192.168.4.1 0x80000001 0x0061d4 192.168.3.2 792 Summary Net Link States (Area 0) Link ID ADV Router Age 1042 Checksum Seq# 192.168.2.1 0x80000001 0x00b6d0 192.168.1.0 192.168.4.0 192.168.4.1 791 0x80000001 0x0087fa Router Link States (Area 10) Link ID ADV Router 192.168.2.1 192.168.2.1 Age Seq# Checksum Link count 1047 0x80000002 0x009d71 1 Summary Net Link States (Area 10) Link ID ADV Router Age Seq# Checksum 192.168.2.1 1037 0x80000001 0x00abda 192.168.2.0 192.168.2.1 965 192.168.2.1 781 0x80000002 0x00a8da 0x80000003 0x00a5da 192.168.3.0 192.168.4.0 Router#

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```
Router#show ip interface fa0/0
 FastEthernet0/0 is up, line protocol is up (connected)
  Internet address is 192.168.1.1/24
  Broadcast address is 255.255.255.255
  Address determined by setup command
  MTU is 1500 bytes
  Helper address is not set
  Directed broadcast forwarding is disabled
  Outgoing access list is not set
  Inbound access list is not set
   Proxy ARP is enabled
  Security level is default
  Split horizon is enabled
   ICMP redirects are always sent
  ICMP unreachables are always sent
  ICMP mask replies are never sent
   IP fast switching is disabled
  IP fast switching on the same interface is disabled
  IP Flow switching is disabled
  IP Fast switching turbo vector
  IP multicast fast switching is disabled
  IP multicast distributed fast switching is disabled
  Router Discovery is disabled
  IP output packet accounting is disabled
  IP access violation accounting is disabled
  TCP/IP header compression is disabled
  RTP/IP header compression is disabled
  Probe proxy name replies are disabled
  Policy routing is disabled
  Network address translation is disabled
  BGP Policy Mapping is disabled
   Input features: MCI Check
   WCCP Redirect outbound is disabled
  WCCP Redirect inbound is disabled
  WCCP Redirect exclude is disabled
 Router#
                                                                                              Paste
                                                                                   Сору
Top
Router# show ip ospf neighbor
 Neighbor ID
                Pri State
                                      Dead Time Address
                                                                 Interface
 192.168.3.1
                1 FULL/DR
                                      00:00:39
                                                192.168.2.2
                                                                FastEthernet0/1
Router#
                                                                                   Сору
                                                                                               Paste
Top
```

Ping command

