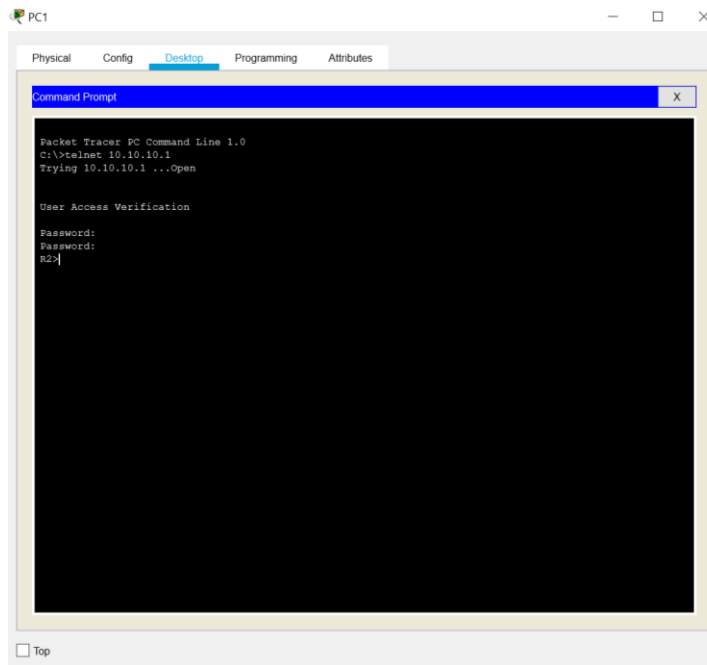
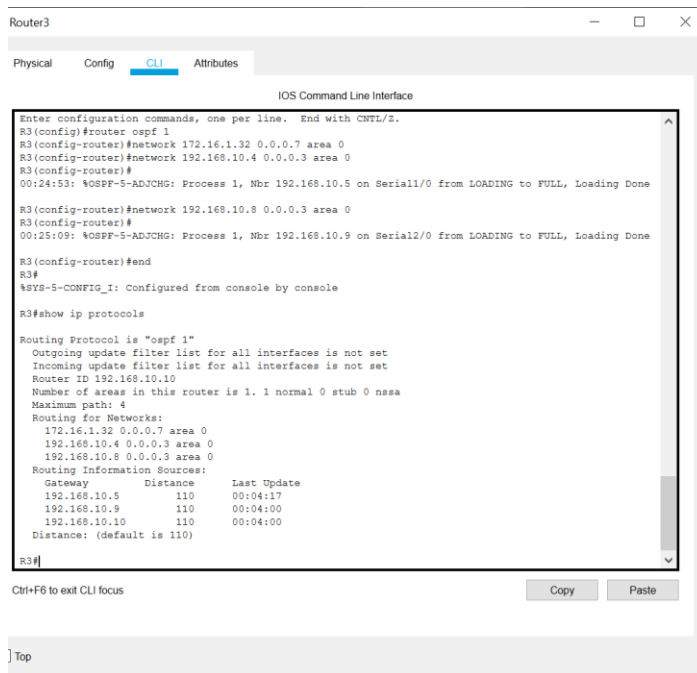


Nama : Muhammad Hargi Muttaqin  
191524027 (D4-2A)

1.

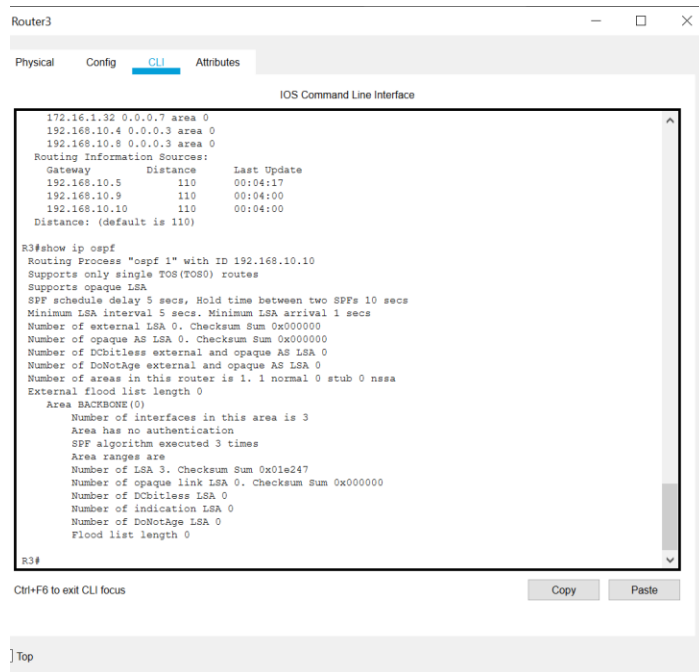


2. A.



B.

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Router3

Physical Config CLI Attributes

IOS Command Line Interface

```
172.16.1.32 0.0.0.7 area 0
192.168.10.4 0.0.0.3 area 0
192.168.10.8 0.0.0.3 area 0
Routing Information Sources:
Gateway Distance Last Update
192.168.10.5 110 00:04:17
192.168.10.9 110 00:04:00
192.168.10.10 110 00:04:00
Distance: (default is 110)

R3#show ip ospf
Routing Process "ospf 1" with ID 192.168.10.10
Supports only single TOS(TOS0) routes
Supports opaque LSA
SPF schedule delay 5 secs, Hold time between two SPFs 10 secs
Minimum LSA interval 5 secs, Minimum LSA arrival 1 secs
Number of external LSA 0, Checksum Sum 0x000000
Number of opaque AS LSA 0, Checksum Sum 0x000000
Number of DCbitless external and opaque AS LSA 0
Number of DoNotAge external and opaque AS LSA 0
Number of areas in this router is 1, 1 normal 0 stub 0 nssa
External flood list length 0
Area BACKBONE(0)
Number of interfaces in this area is 3
Area has no authentication
SPF algorithm executed 3 times
Area ranges are
Number of LSA 3, Checksum Sum 0x01e247
Number of opaque link LSA 0, Checksum Sum 0x000000
Number of DCbitless LSA 0
Number of indication LSA 0
Number of DoNotAge LSA 0
Flood list length 0

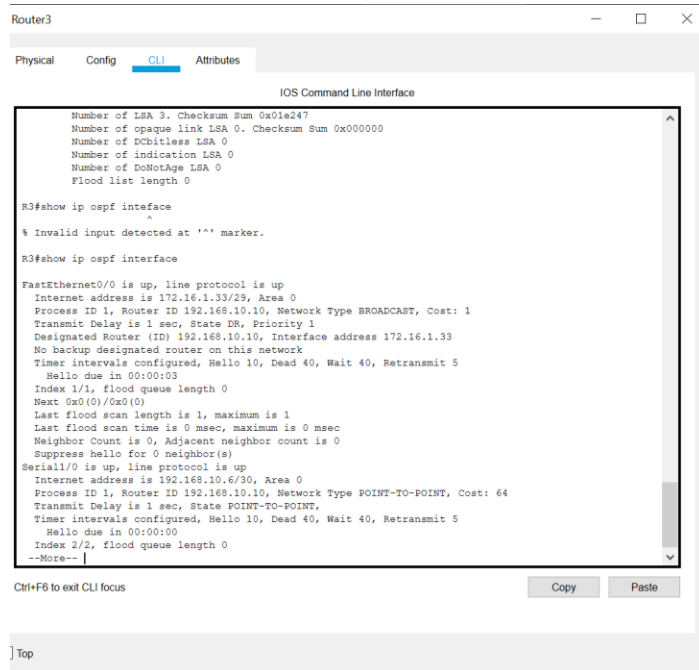
R3#
```

Ctrl+F6 to exit CLI focus

Copy Paste

] Top

C.



Router3

Physical Config CLI Attributes

IOS Command Line Interface

```
Number of LSA 3, Checksum Sum 0x01e247
Number of opaque link LSA 0, Checksum Sum 0x000000
Number of DCbitless LSA 0
Number of indication LSA 0
Number of DoNotAge LSA 0
Flood list length 0

R3#show ip ospf interface
% Invalid input detected at '^' marker.

R3#show ip ospf interface
FastEthernet0/0 is up, line protocol is up
Internet address is 172.16.1.33/28, Area 0
Process ID 1, Router ID 192.168.10.10, Network Type BROADCAST, Cost: 1
Transmit Delay is 1 sec, State DR, Priority 1
Designated Router (ID) 192.168.10.10, Interface address 172.16.1.33
No backup designated router on this network
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
Hello due in 00:00:03
Index 1/1, flood queue length 0
Next 0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 1
Last flood scan time is 0 msec, maximum is 0 msec
Neighbor Count is 0, Adjacent neighbor count is 0
Suppress hello for 0 neighbor(s)
Serial1/0 is up, line protocol is up
Internet address is 192.168.10.6/30, Area 0
Process ID 1, Router ID 192.168.10.10, Network Type POINT-TO-POINT, Cost: 64
Transmit Delay is 1 sec, State POINT-TO-POINT,
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
Hello due in 00:00:00
Index 2/2, flood queue length 0
--More--
```

Ctrl+F6 to exit CLI focus

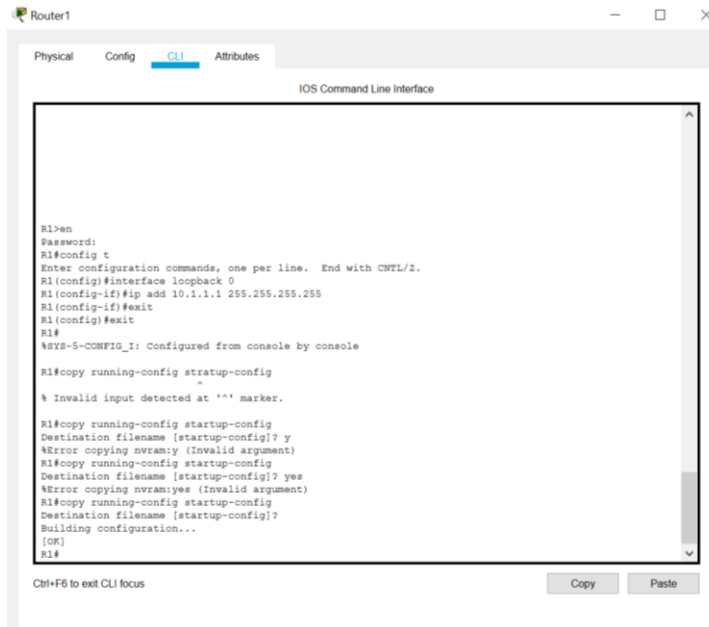
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3. Dan

4.



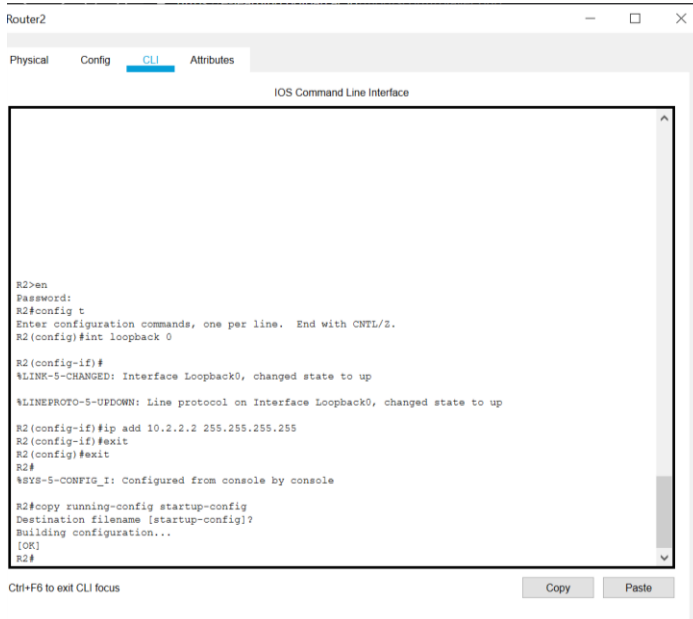
```
Router1
Physical Config CLI Attributes
IOS Command Line Interface

R1>en
Password:
R1#config t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#interface loopback 0
R1(config-if)#ip add 10.1.1.1 255.255.255.255
R1(config-if)#exit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#copy running-config startup-config
^
% Invalid input detected at '^' marker.

R1#copy running-config startup-config
Destination filename [startup-config]? y
%Error copying nvram: y (Invalid argument)
R1#copy running-config startup-config
Destination filename [startup-config]? yes
%Error copying nvram: yes (Invalid argument)
R1#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
R1#

Ctrl+F6 to exit CLI focus
```



```
Router2
Physical Config CLI Attributes
IOS Command Line Interface

R2>en
Password:
R2#config t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#int loopback 0

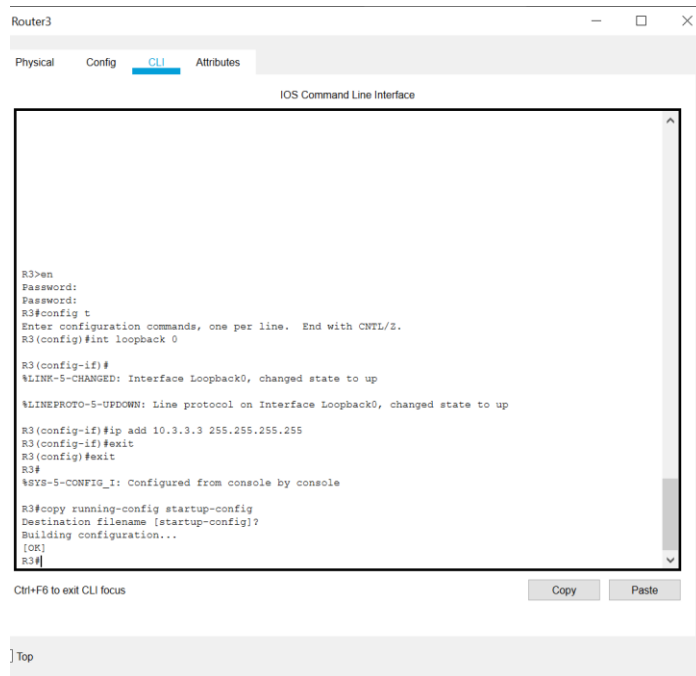
R2(config-if)#
%LINE-5-CHANGED: Interface Loopback0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

R2(config-if)#ip add 10.2.2.2 255.255.255.255
R2(config-if)#exit
R2(config)#exit
R2#
%SYS-5-CONFIG_I: Configured from console by console

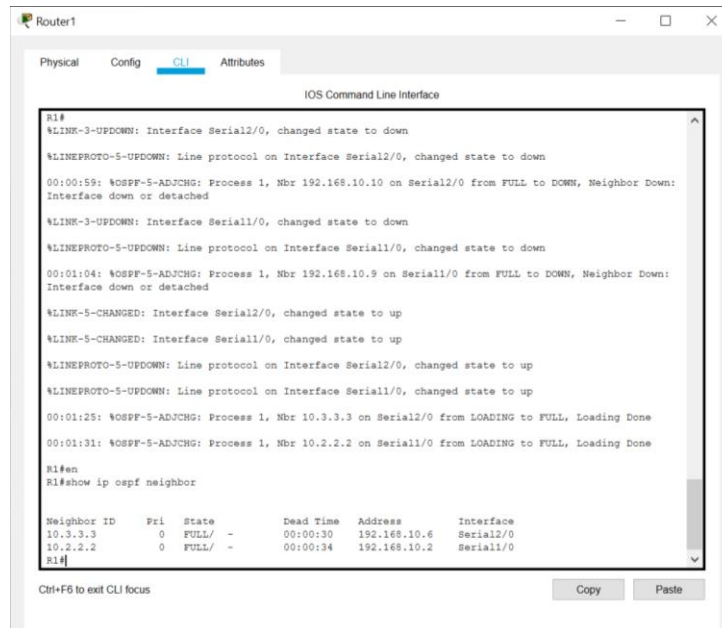
R2#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
R2#

Ctrl+F6 to exit CLI focus
```

Nama : Muhammad Hargi Muttaqin  
191524027 (D4-2A)



5.



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191524027 (D4-2A)

Router2

Physical Config CLI Attributes

IOS Command Line Interface

```
Copyright (c) 1986-2005 by Cisco Systems, Inc.  
Compiled Wed 27-Apr-04 19:01 by miwang  
  
PT 1001 (PTSC2005) processor (revision 0x200) with 60416K/5120K bytes of memory  
.  
Processor board ID PT0123 (0123)  
PT2005 processor: part number 0, mask 01  
Bridging software.  
X.25 software, Version 3.0.0.  
1 FastEthernet/IEEE 802.3 interface(s)  
2 Low-speed serial(sync/async) network interface(s)  
32K bytes of non-volatile configuration memory.  
63488K bytes of ATA CompactFlash (Read/Write)  
  
Press RETURN to get started!  
  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to up  
00:00:20: %OSPF-5-ADJCHG: Process 1, Nbr 10.3.3.3 on Serial2/0 from LOADING to FULL, Loading Done  
  
R2>en  
Password:  
00:00:26: %OSPF-5-ADJCHG: Process 1, Nbr 10.1.1.1 on Serial1/0 from LOADING to FULL, Loading Done  
  
R2#show ip ospf neighbor
```

Neighbor ID	Pri	State	Dead Time	Address	Interface
10.1.1.1	0	FULL/ -	00:00:34	192.168.10.1	Serial1/0
10.3.3.3	0	FULL/ -	00:00:36	192.168.10.10	Serial2/0

R2#

Ctrl+F6 to exit CLI focus

Copy Paste

Router3

Physical Config CLI Attributes

IOS Command Line Interface

```
Processor board ID PT0123 (0123)  
PT2005 processor: part number 0, mask 01  
Bridging software.  
X.25 software, Version 3.0.0.  
1 FastEthernet/IEEE 802.3 interface(s)  
2 Low-speed serial(sync/async) network interface(s)  
32K bytes of non-volatile configuration memory.  
63488K bytes of ATA CompactFlash (Read/Write)  
  
Press RETURN to get started!  
  
%LINK-5-CHANGED: Interface Serial2/0, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to up  
  
R3>  
00:00:24: %OSPF-5-ADJCHG: Process 1, Nbr 10.2.2.2 on Serial2/0 from LOADING to FULL, Loading Done  
00:00:25: %OSPF-5-ADJCHG: Process 1, Nbr 10.1.1.1 on Serial1/0 from LOADING to FULL, Loading Done  
en  
Password:  
Password:  
R3#show ip ospf neighbor
```

Neighbor ID	Pri	State	Dead Time	Address	Interface
10.2.2.2	0	FULL/ -	00:00:31	192.168.10.9	Serial2/0
10.1.1.1	0	FULL/ -	00:00:35	192.168.10.5	Serial1/0

R3#

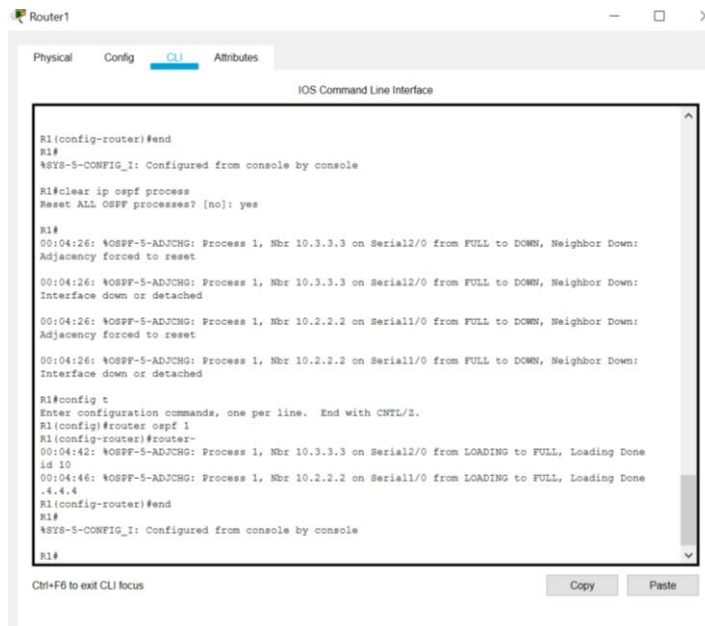
Ctrl+F6 to exit CLI focus

Copy Paste

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191524027 (D4-2A)

6.



Router1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
R1(config-router)#end
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#clear ip ospf process
Reset ALL OSPF processes? [no]: yes

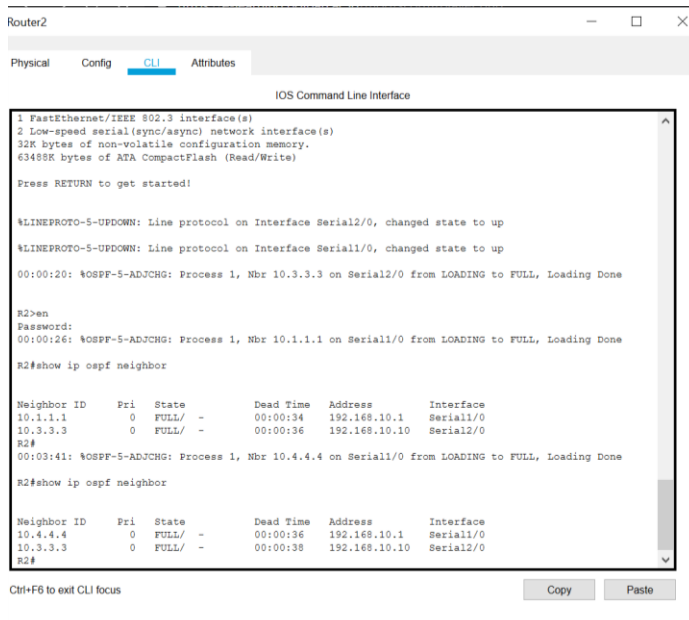
R1#
00:04:26: %OSPF-5-ADJCHG: Process 1, Nbr 10.3.3.3 on Serial2/0 from FULL to DOWN, Neighbor Down:
Adjacency forced to reset
00:04:26: %OSPF-5-ADJCHG: Process 1, Nbr 10.3.3.3 on Serial2/0 from FULL to DOWN, Neighbor Down:
Interface down or detached
00:04:26: %OSPF-5-ADJCHG: Process 1, Nbr 10.2.2.2 on Serial1/0 from FULL to DOWN, Neighbor Down:
Adjacency forced to reset
00:04:26: %OSPF-5-ADJCHG: Process 1, Nbr 10.2.2.2 on Serial1/0 from FULL to DOWN, Neighbor Down:
Interface down or detached

R1#config t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#router ospf 1
R1(config-router)#router-
00:04:42: %OSPF-5-ADJCHG: Process 1, Nbr 10.3.3.3 on Serial2/0 from LOADING to FULL, Loading Done
00:04:46: %OSPF-5-ADJCHG: Process 1, Nbr 10.2.2.2 on Serial1/0 from LOADING to FULL, Loading Done
.4.4.4
R1(config-router)#end
R1#
%SYS-5-CONFIG_I: Configured from console by console
R1#
```

Ctrl+F6 to exit CLI focus

Copy Paste

7.



Router2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
1 FastEthernet/IEEE 802.3 interface(s)
3 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to up
00:00:20: %OSPF-5-ADJCHG: Process 1, Nbr 10.3.3.3 on Serial2/0 from LOADING to FULL, Loading Done

R2>en
Password:
00:00:26: %OSPF-5-ADJCHG: Process 1, Nbr 10.1.1.1 on Serial1/0 from LOADING to FULL, Loading Done

R2#show ip ospf neighbor

Neighbor ID Pri State Dead Time Address Interface
10.1.1.1 0 FULL/- 00:00:34 192.168.10.1 Serial1/0
10.3.3.3 0 FULL/- 00:00:36 192.168.10.10 Serial2/0
R2#
00:03:41: %OSPF-5-ADJCHG: Process 1, Nbr 10.4.4.4 on Serial1/0 from LOADING to FULL, Loading Done

R2#show ip ospf neighbor

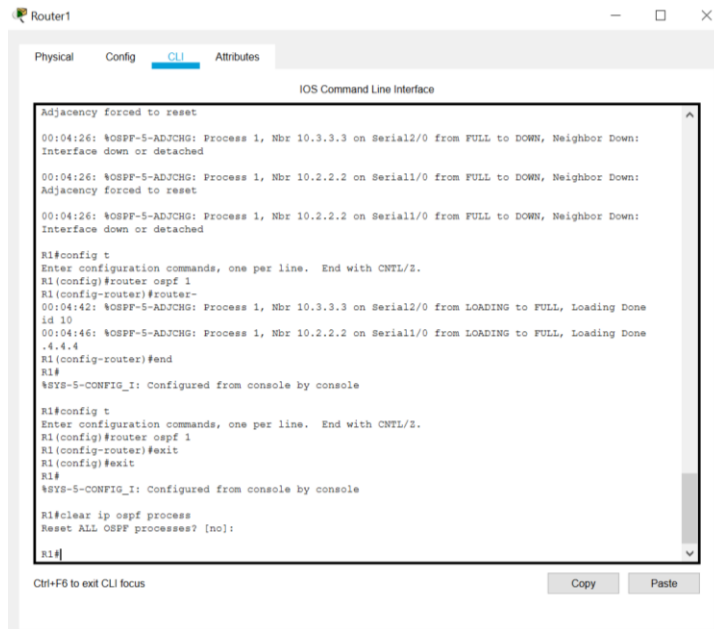
Neighbor ID Pri State Dead Time Address Interface
10.4.4.4 0 FULL/- 00:00:36 192.168.10.1 Serial1/0
10.3.3.3 0 FULL/- 00:00:38 192.168.10.10 Serial2/0
R2#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Nama : Muhammad Hargi Muttaqin  
191524027 (D4-2A)

8.



The screenshot shows a Cisco Packet Tracer console window for Router1. The window has tabs for Physical, Config, CLI, and Attributes, with the CLI tab selected. The title bar says "Router1" and "IOS Command Line Interface". The console output shows the following sequence of events:

```
Adjacency forced to reset
00:04:26: %OSPF-5-ADJCHG: Process 1, Nbr 10.3.3.3 on Serial2/0 from FULL to DOWN, Neighbor Down:
Interface down or detached
00:04:26: %OSPF-5-ADJCHG: Process 1, Nbr 10.2.2.2 on Serial1/0 from FULL to DOWN, Neighbor Down:
Adjacency forced to reset
00:04:26: %OSPF-5-ADJCHG: Process 1, Nbr 10.2.2.2 on Serial1/0 from FULL to DOWN, Neighbor Down:
Interface down or detached

R1#config t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#router ospf 1
R1(config-router)#router-
00:04:42: %OSPF-5-ADJCHG: Process 1, Nbr 10.3.3.3 on Serial2/0 from LOADING to FULL, Loading Done
id 10
00:04:46: %OSPF-5-ADJCHG: Process 1, Nbr 10.2.2.2 on Serial1/0 from LOADING to FULL, Loading Done
.4.4.4
R1(config-router)#end
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#config t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#router ospf 1
R1(config-router)#exit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#clear ip ospf process
Reset ALL OSPF processes? [no]:
R1#
```

At the bottom of the console window, there is a prompt "Ctrl+F6 to exit CLI focus" and two buttons: "Copy" and "Paste".