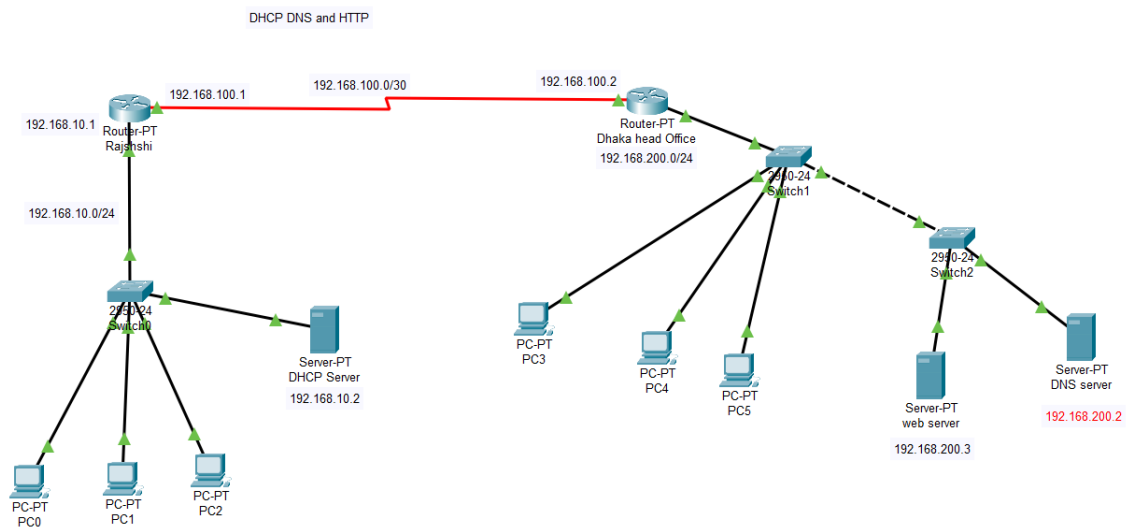
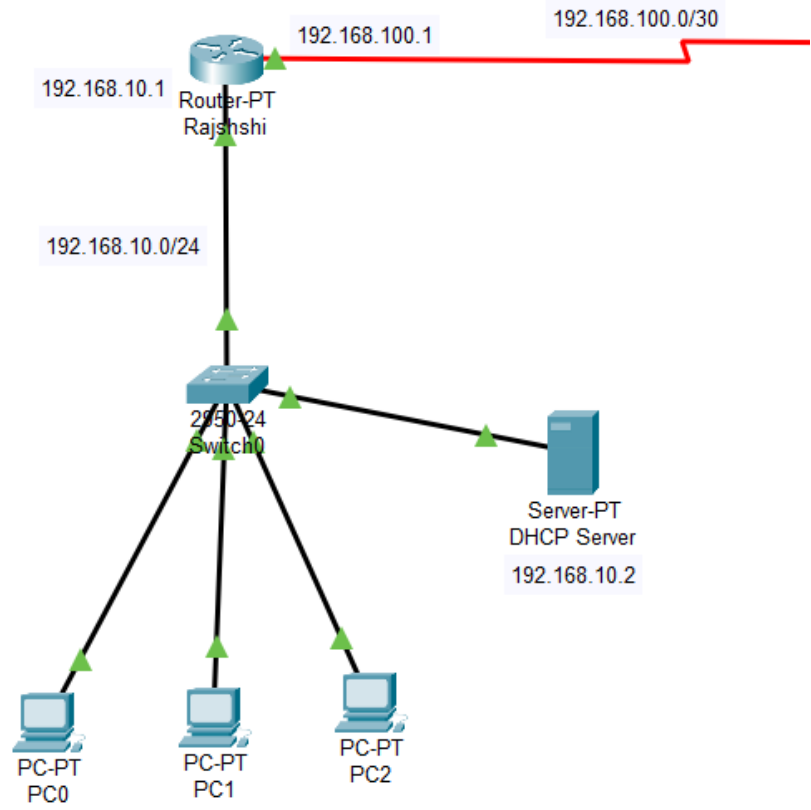


DHCP DNS and HTTP server and Static Routing



Route Rajshahi:

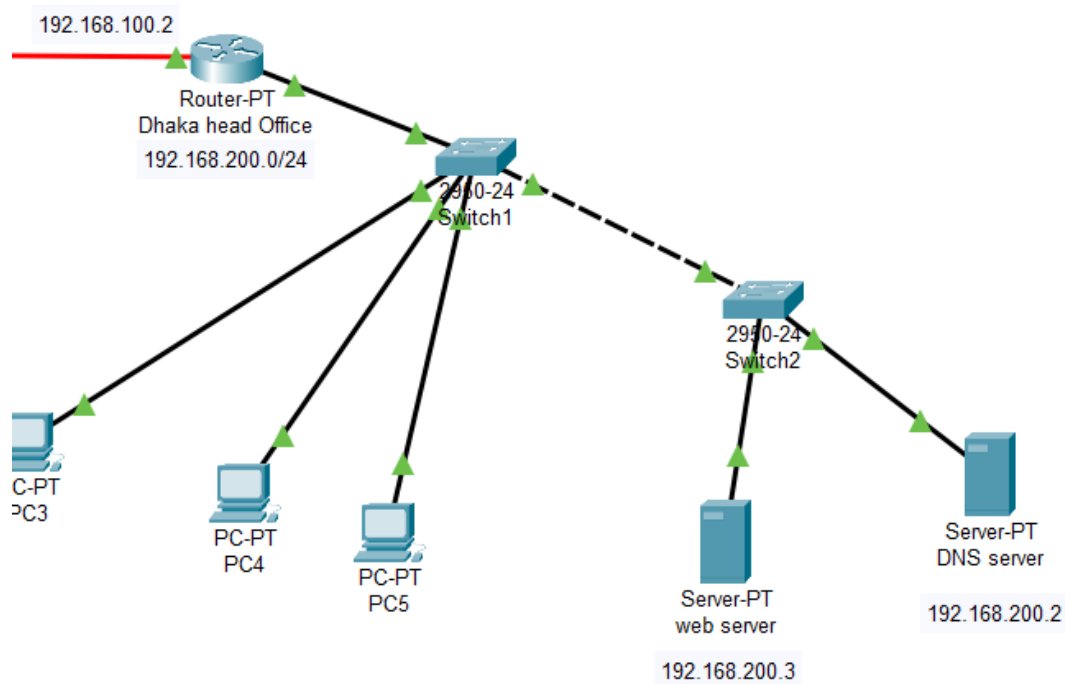


```

1. Router>en
2. Router#config t
3. Router(config)#hostname RAJSHAHI
4. RAJSHAHI(config)#int fa0/0
5. RAJSHAHI(config-if)#ip add 192.168.10.1 255.255.255.0
6. RAJSHAHI(config-if)#no shut
7.
8. RAJSHAHI(config-if)#
9. %LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
10.
11. %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
12.
13. RAJSHAHI(config-if)#int s2/0
14. RAJSHAHI(config-if)#ip add 192.168.100.1 255.255.255.252
17. RAJSHAHI(config-if)#clock rate 64000
18. RAJSHAHI(config-if)#no shut
19.
20. %LINK-5-CHANGED: Interface Serial2/0, changed state to down
21. RAJSHAHI(config-if)#no shut

```

Routing Dhaka head office:



```

1. Router>en
2. Router#config t
3. Router(config)#hostname DHAKA
4. DHAKA (config)#int fa0/0
5. DHAKA (config-if)#ip add 192.168.200.1 255.255.255.0
6. DHAKA (config-if)#no shut
7.
8. DHAKA (config-if)#
9. %LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
10.
11. %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

```

```

12.
13. DHAKA (config-if)#int s2/0
14. DHAKA (config-if)#ip add 192.168.100.2 255.255.255.252
17. DHAKA (config-if)#clock rate 64000
18. DHAKA (config-if)#no shut
19.
20. %LINK-5-CHANGED: Interface Serial2/0, changed state to down
21. DHAKA (config-if)#no shut

```

DNS and WEB Server

DNS server

Physical Config Services **Desktop** Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.200.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.200.1

DNS Server: 192.168.200.2

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::209:7CFF:FE93:6D5D

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

DNS server

Physical **Config** Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Global Settings

Display Name: DNS server

Gateway/DNS IPv4

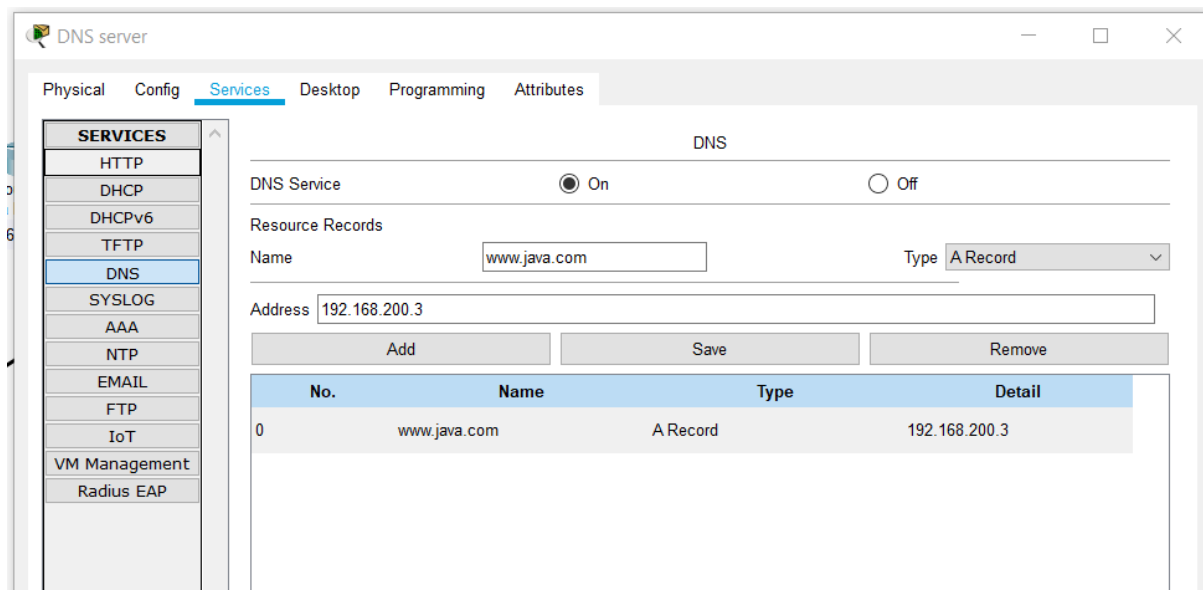
☐ DHCP ☒ Static

Gateway: 192.168.200.1

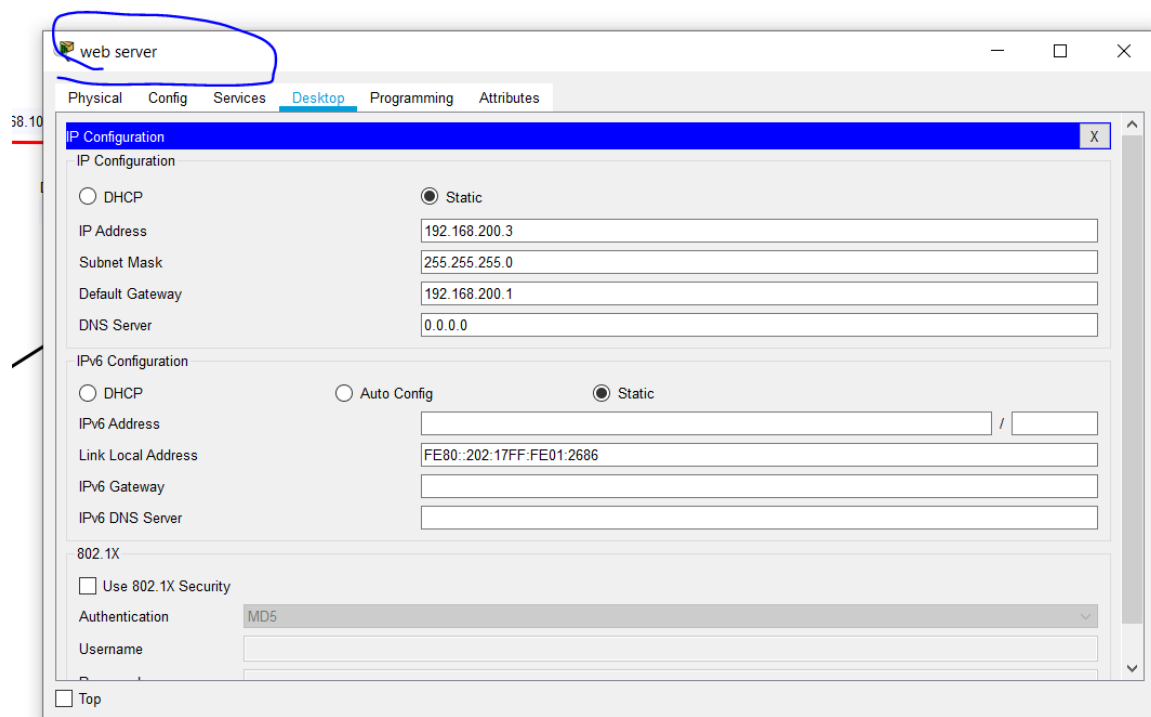
DNS Server: 192.168.200.2

Gateway/DNS IPv6

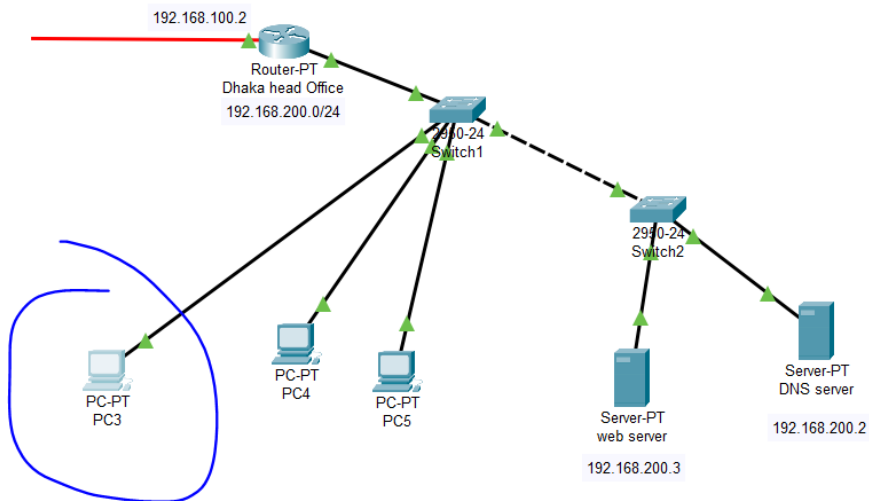
☐ DHCP ☐ Auto Config



Web server:



Checking pc:



PC3

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.200.4

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.200.1

DNS Server: 192.168.200.2

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::290:CFF:FE2D:13B6

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

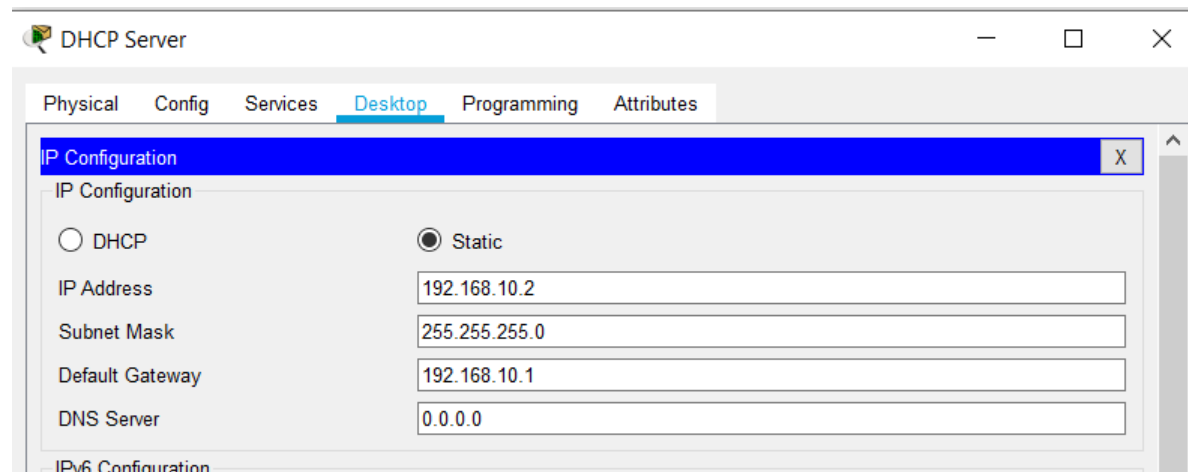
Authentication: MD5

Username:

Password:

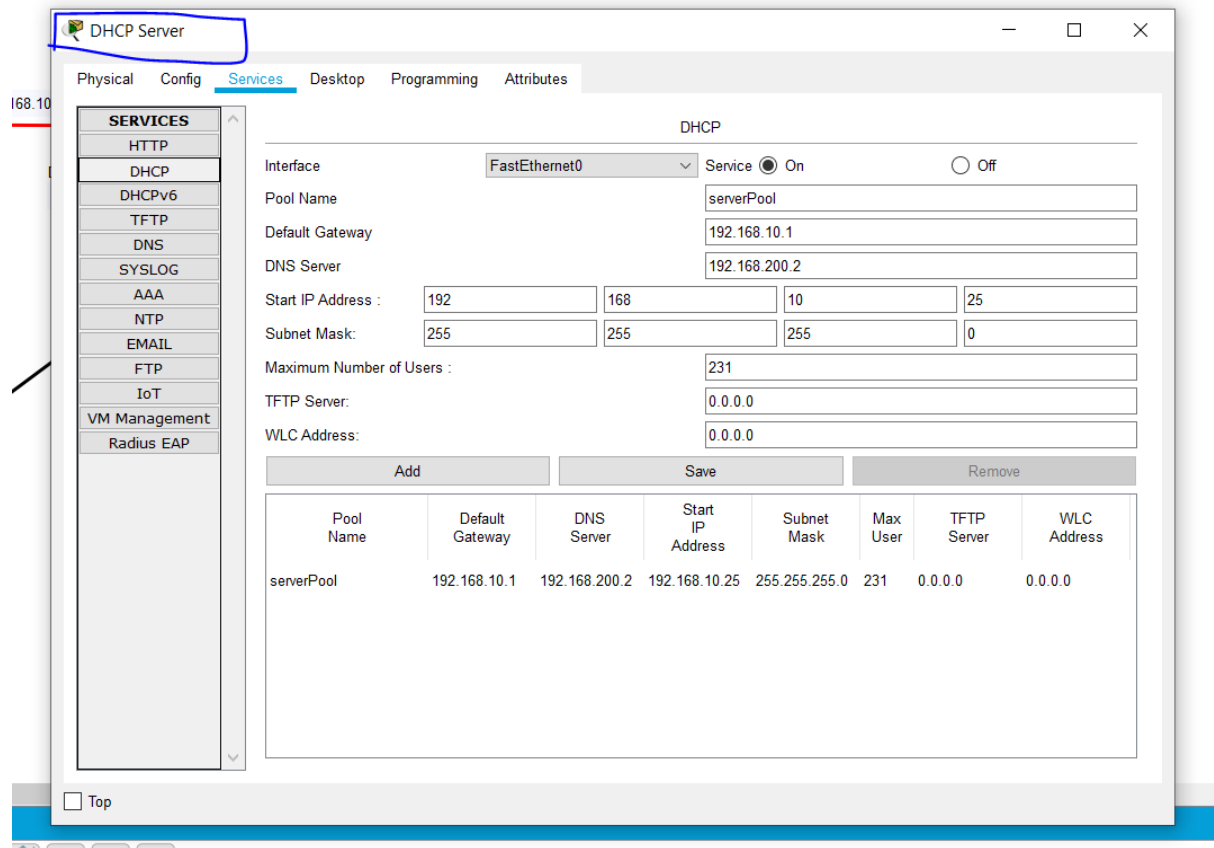
☐ Top

DHCP Server:



The screenshot shows the 'DHCP Server' window with the 'Desktop' tab selected. The 'IP Configuration' section is active, showing static IP settings for the interface. The 'DHCP' radio button is unselected, and the 'Static' radio button is selected.

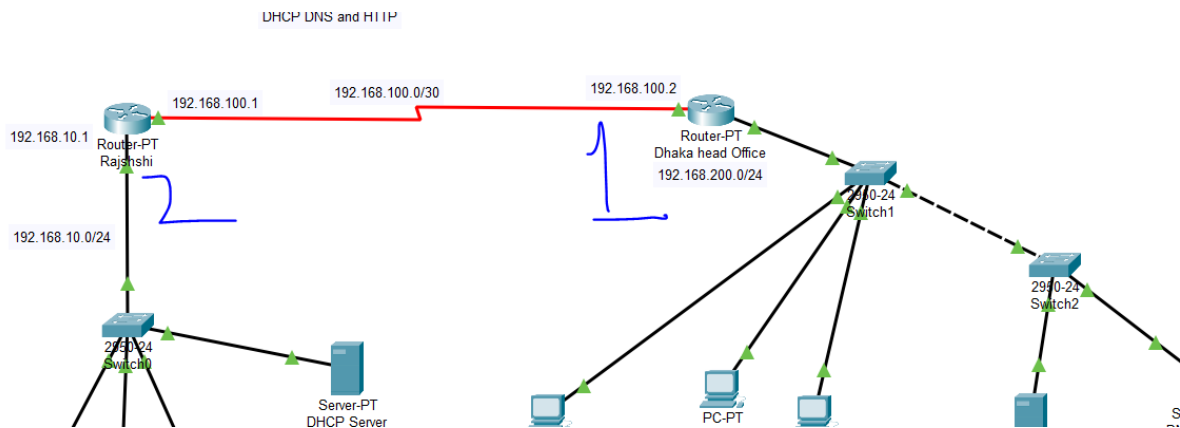
Field	Value
IP Address	192.168.10.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.1
DNS Server	0.0.0.0



The screenshot shows the 'DHCP Server' window with the 'Services' tab selected. The 'DHCP' service is configured and enabled. The 'Interface' is set to 'FastEthernet0'. The 'Service' is set to 'On'. The 'Pool Name' is 'serverPool'. The 'Default Gateway' is '192.168.10.1'. The 'DNS Server' is '192.168.200.2'. The 'Start IP Address' is '192.168.10.25'. The 'Subnet Mask' is '255.255.255.0'. The 'Maximum Number of Users' is '231'. The 'TFTP Server' is '0.0.0.0'. The 'WLC Address' is '0.0.0.0'. A table at the bottom lists the configured pool.

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.10.1	192.168.200.2	192.168.10.25	255.255.255.0	231	0.0.0.0	0.0.0.0

Static routing:



1:

```
1. DHAKA>
2. DHAKA>en
9. DHAKA#config t
10. Enter configuration commands, one per line. End with CNTL/Z.
11. DHAKA(config)#ip route 192.168.10.0 255.255.255.0 192.168.100.1
12. DHAKA(config)#^Z
13. DHAKA#
14. %SYS-5-CONFIG_I: Configured from console by console
15. show ip route
16. Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
17. D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
18. N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
19. E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
20. i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
21. * - candidate default, U - per-user static route, o - ODR
22. P - periodic downloaded static route
23.
24. Gateway of last resort is not set
25.
26. S 192.168.10.0/24 [1/0] via 192.168.100.1
27. 192.168.100.0/30 is subnetted, 1 subnets
28. C 192.168.100.0 is directly connected, Serial2/0
29. C 192.168.200.0/24 is directly connected, FastEthernet0/0
30.
31. DHAKA#
```

2:

```
9. RAJSHAHI>en
10. RAJSHAHI#config t
11. Enter configuration commands, one per line. End with CNTL/Z.
12. RAJSHAHI(config)#ip route 192.168.200.0 255.255.255.0 192.168.100.2
13. RAJSHAHI#sh ip route
14. Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
15. D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
16. N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
17. E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
18. i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
19. * - candidate default, U - per-user static route, o - ODR
20. P - periodic downloaded static route
21.
22. Gateway of last resort is not set
23.
24. S 192.168.10.0/24 [1/0] via 192.168.100.1
25. 192.168.100.0/30 is subnetted, 1 subnets
26. C 192.168.100.0 is directly connected, Serial2/0
27. S 192.168.200.0/24 [1/0] via 192.168.100.2
28.
29. RAJSHAHI#
```