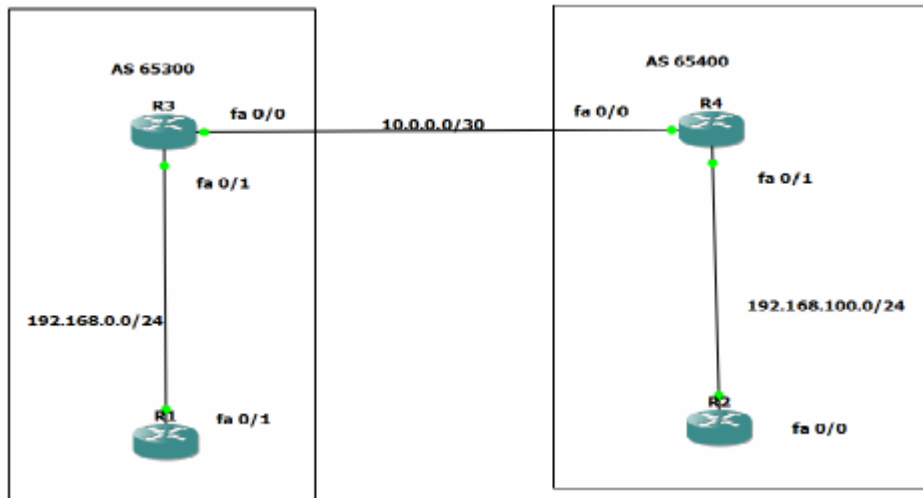Prac 5

R1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)# int fa 0/0
R1(config-if)# ip add 192.168.0.2 255.255.255.0
R1(config-if)# no shut
R1(config-if)# exit
R1(config)# router bgp 65300
R1(config-router)# neighbor 192.168.0.1 remote-as 65300
R1(config-router)#exit

R3#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R3(config)# int fa 0/0

R3(config-if)# ip add 10.0.0.1 255.255.255.252

R3(config-if)# no shut

R3(config-if)# exit

R3(config)# int fa 0/1

R3(config-if)# ip add 192.168.0.1 255.255.255.0

R3(config-if)# no shut

R3(config-if)# exit

R3(config)# int fa 0/0

R3(config-if)# ip add 10.0.0.1 255.255.255.252

R3(config-if)# no shut

```
R3(config-if)# exit

R3(config)# int fa 0/1

R3(config-if)# ip add 192.168.0.1 255.255.255.0

R3(config-if)# no shut

R3(config-if)# exit

R3(config)# router bgp 65300

R3(config-router)# neighbor 10.0.0.2 remote-as 65400

R3(config-router)# neighbor 192.168.0.2 remote-as 65300

R3(config-router)# network 192.168.0.0 mask 255.255.255.0

R3(config-router)# exit

R3(config)# router bgp 65300

R3(config-router)# neighbor 192.168.0.2 next-hop-self

R3(config-router)# exit


R4#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R4(config)# int fa 0/0

R4(config-if)# ip add 10.0.0.2 255.255.255.252

R4(config-if)# no shut

R4(config-if)# exit

R4(config)# int fa 0/1

R4(config-if)# ip add 192.168.0.100 255.255.255.0

R4(config-if)# no shut

R4(config-if)# exit

R4(config)# router bgp 65400

R4(config-router)# neighbor 10.0.0.1 remote-as 65300

R4(config-router)# neighbor 192.168.0.2 remote-as 65 0

R4(config-router)# network 10.0.0.0 mask 255.255.255.252

R4(config-router)# network 192.168.0.0 mask 255.255.255.0

R4(config-router)# exit

R4(config)# router bgp 65400
```

R4(config-router)# neighbor 192.168.0.100 2 next-hop-self

R4(config-router)# exit

R2# conf t

Enter configuration commands, one per line. End with CNTL/Z.

R2(config)# int fa 0/0

R2(config-if)# ip add 192.168.0.2 255.255.255.0

R2(config-if)# no shut

R2(config-if)# exit

R2(config)# router bgp 65400

R2(config-router)# neighbor 192.168.0.1 remote-as 65400

R2(config-router)# exit


```
R1#show ip route
Codes: 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
i - IS-IS, su - IS-IS summary, 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

C 192.168.0.0/24 is directly connected, FastEthernet0/0

R1# ping 192.168.100.2
```

```
R3# show ip bgp
BGP table version is 3, local router ID is 192.168.0.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
r RIB-failure, S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete

Network Next Hop Metric LocPrf Weight Path
*>192.168.0.0 0.0.0.2 0 32768 i
*>192.168.100.0 10.0.0.2 0 65400 1
```

R3# show ip route
Codes: 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
i - IS-IS, su - IS-IS summary, 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

C 10.0.0.0/30 is subnetted, 1 subnets
C 10.0.0.0 is directly connected, FastEthernet0/0
C 192.168.0.0/24 is directly connected, FastEthernet0/1
B 192.168.100.0/24 [20/0] via 10.0.0.2, 00:14:06

R4# show ip bgp
BGP table version is 3, local router ID is 192.168.100.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
r RIB-failure, S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete

Network Next Hop Metric LocPrf Weight Path
*>192.168.0.0 10.0.0.1 0 65300 i
*>192.168.100.0 0.0.0.1 0 32768 i

R4#show ip route
Codes: 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
i - IS-IS, su - IS-IS summary, 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

C 10.0.0.0/30 is subnetted, 1 subnets
C 10.0.0.0 is directly connected, FastEthernet0/0
C 192.168.100.0/24 is directly connected, FastEthernet0/1
B 192.168.0.0/24 [20/0] via 10.0.0.1, 00:16:03

R2# show ip route
Codes: 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
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, candidate default, U - per-user static route
ODR, P - periodic downloaded static route

Gateway of last resort is not set

B 192.168.0.0/24 [200/0] via 192.168.100.1, 02:23:44
C 192.168.100.0/24 is directly connected, FastEthernet0/0

R2# show ip bgp
BGP table version is 4, local router ID is 192.168.100.2
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
r RIB-failure, S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete

Network Next Hop Metric LocPrf Weight Path
*>i192.168.0.0 192.168.100.1 0 100 0 65300 i
r>i192.168.100.0 192.168.100.1 0 100 0 i