**Configure the Router 1**

Router>enable

Router#configure terminal

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

Router(config)#hostname R1

R1(config)#interface serial 0/0/0

R1(config-if)#ip address 10.10.10.1 255.255.255.252

R1(config-if)#clock rate 64000

R1(config-if)#no shutdown

R1(config-if)#exit

R1(config)#

R1(config)#interface fastEthernet 0/0

R1(config-if)#ip address 192.168.30.1 255.255.255.0

R1(config-if)#no shutdown

R1(config-if)#exit

R1(config)#router rip

R1(config-router)#network 10.10.10.0

R1(config-router)#network 192.168.30.0

R1(config-router)#exit

**Configure the Router 2**

Router>enable

Router#configure terminal

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

Router(config)#hostname R2

R2(config)#interface serial 0/0/0

R2(config-if)#ip address 10.10.10.2 255.255.255.252

R2(config-if)#no shutdown

R2(config-if)# exit

R2(config)#interface fastEthernet 0/0

R2(config-if)#ip address 192.168.10.1 255.255.255.0

R2(config-if)#no shutdown

R2(config-if)# exit

R2(config)#router rip

R2(config-router)#network 10.10.10.0

R2(config-router)#network 192.168.10.0

R2(config-router)#exit

**DHCP Configuration**

R2>enable

R2#configure terminal

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

R2(config)#ip dhcp excluded-address 192.168.10.1 192.168.10.20

R2(config)#ip dhcp pool mynetwork (you can give any name)

R2(dhcp-config)#

R2(dhcp-config)#network 192.168.10.0 255.255.255.0

R2(dhcp-config)#default-router 192.168.10.1

R2(dhcp-config)#dns-server 192.168.10.100

R2(dhcp-config)#exit

R2(dhcp-config)#

R2(config)#ip dhcp pool yournetwork (you can give any name)

R2(dhcp-config)#

R2(dhcp-config)#network 192.168.30.0 255.255.255.0

R2(dhcp-config)#default-router 192.168.30.1

R2(dhcp-config)#dns-server 192.168.30.100

**DHCP Options on Cisco Router**

R1>enable

R1#configure terminal

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

R1(config)#interface fastEthernet 0/0

R1(config-if)#ip helper-address 10.10.10.2

R1(config-if)#exit