# Router1(University Gateway) configuration

**Router to Router configuration :**

Router>en

Router# config t

Router(config)# interface se2/0

Router(config-if)# description 192.168.0.0/24 network

Router(config-if)# ip address 192.168.0.1 255.255.255.0

Router(config-if)# clock rate 4800

Router(config-if)#no shut

Router(config-if)# do wr

**Router1 to Switch/DHCP Configuration :**

Router> en

Router# config t

Router(config)# interface fa0/0

Router(config-if)# description 10.0.0.0/8 network

Router(config-if)# ip address 10.0.0.1 255.0.0.0

Router(config-if)#no shut

Router(config-if)# do wr

**Router1 to DNS server configuration :**

Router> en

Router# config t

Router(config)# interface fa1/0

Router(config-if)# description 8.0.0.0/8 network

Router(config-if)# ip address 8.0.0.1 255.0.0.0

Router(config-if)#no shut

Router(config-if)# do wr

**DHCP server :**

Network : 10.0.0.0/8

Ip address : 10.0.0.2

Mask net : 255.0.0.0

Default Gateway : 10.0.0.1

DNS server : 8.8.8.8

Ip address start : 10.0.0.3 255.0.0.0

# Router2(Outer Router) configuration

**Router to Router network :**

Router>en

Router# config t

Router(config)# interface se2/0

Router(config-if)# description 192.168.0.0/24 network

Router(config-if)# ip address 192.168.0.2 255.255.255.0

Router(config-if)# no shut

Router(config-if)# do wr

**Outer Router(Router2) to University Network configuration:**

Router>en

Router# config t

Router(config)# ip route 10.0.0.0 255.0.0.0 192.168.0.1

**Outer router network configuration :**

Router>en

Router# config t

Router(config)# interface fa0/0

Router(config-if)# description 20.20.0.0/8 network

Router(config-if)# ip address 20.0.0.1 255.0.0.0

Router(config-if)# no shut

Router(config-if)# do wr

**Outer Network to University Network configuration :**

Router>en

Router# config t

Router(config)# ip route 20.0.0.0 255.0.0.0 192.168.0.2