Experiment 18: To configure routing information protocol (RIP) using cisco packet tracer

Algorithm:

1. Open cisco packet tracer
2. Set up equipments:
   a. Add 5 routers and connect them
3. Set up router configuration:
   a. In router-0 select the interface gig 0/0 (line 11.0.0.0)
   b. Set the ip address as 11.0.0.1
   c. In router-1 select the interface gig 0/0 (line 11.0.0.0)
   d. Set the ip address as 11.0.0.2
   e. Similarly configure all the routers
4. RIP configuration
   a. Open the CLI of router-0
   b. Configure terminal
   c. router rip
   d. network 10.0.0.0
   e. network 11.0.0.0
   f. Similarly configure rip for all the routers
5. Testing
   a. Open the CLI of router-o
   b. show ip route

Experiment 19: To configure open shortest path first (OSPF) using cisco packet tracer

Algorithm:

1. Open cisco packet tracer
2. Set up equipments:
   a. Add 5 routers and connect them
3. Set up router configuration:
   a. In router-0 select the interface gig 0/0 (line 11.0.0.0)
   b. Set the ip address as 11.0.0.1

c. In router-1 select the interface gig 0/0 (line 11.0.0.0)

d. Set the ip address as 11.0.0.2

e. Similarly configure all the routers

4. OSPF configuration

a. Open the CLI of router-0

b. Configure terminal

c. router ospf 1

d. network 10.0.0.0 0.255.255.255 area 1

e. network 11.0.0.0 0.255.255.255 area 1

f. Similarly configure ospf for all the routers

5. Testing

a. Open the CLI of router-o

b. show ip route

Experiment 20: To configure static routing using cisco packet tracer

Algorithm:

1. Open cisco packet tracer

2. Set up equipments:

a. Add 4 routers and connect them

3. Set up router configuration:

a. In router-0 select the interface gig 0/0 (line 11.0.0.0)

b. Set the ip address as 11.0.0.1

c. In router-1 select the interface gig 0/0 (line 11.0.0.0)

d. Set the ip address as 11.0.0.2

e. Similarly configure all the routers

4. Rip configuration

a. Open the CLI of router-0

b. Configure terminal

c. Ip route 12.0.0.0 255.255.255.0 11.0.0.2

d. network 13.0.0.0 255.255.255.0 11.0.0.2

e. Similarly configure static routing for all the routers

5. Testing

a. Open the CLI of router-o

b. show ip route