Aim :

a) stimulate the static routing configuration using cisco packet tracer.

b) simulate RIP using cisco packet tracer.

a) 1. Adding static Routes : each router known only the networks directly connected to it add static route to reach a network not directly connected.

Eg : Router 0, networks 10.0.0.0/8, 20.0.0.0/8, 40.0.0.0/3 are directly connected, but 30.0.0/8, 50.0.0.0/8.

2) creating Main & backup routes.
Administrative distance decides preference of routes, the lower the AD, the higher the preference.

3) Router configuration :

configure static routes on each router for networks not directly connected.

4) verifying router :
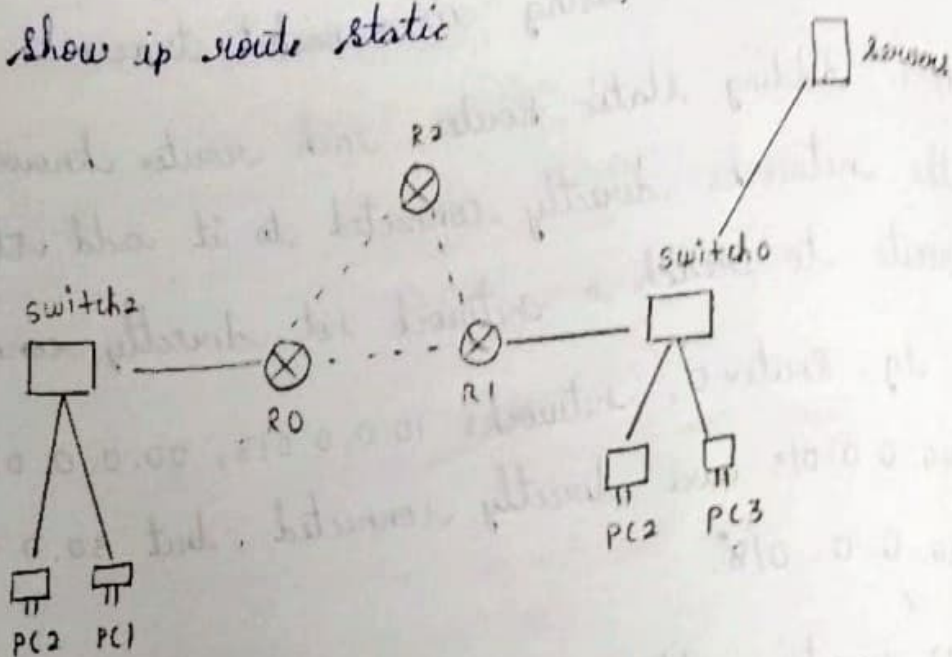
verify routes by using commanding show ip route static.

3) Testing Route fail over:

→ Test connectivity using tracent or ping from a device on a connected network

→ Is connect or "break" the link on the main route.

6) Deleting a static Route.

Show ip route static

b)

(1) Initial IP configuration for devices.

(2) Assign IP Address to devices for PCs 2 router.

(3) Enable configure interfaces on Router

(4) configure Rip on Routers.

5) verify and Test redundancy.

- use ping command on PC1

• use tracort to see rip redirecting

traffic through an alternate route.

Result

Thus the program is successfully executed & the output is verified.