**Title of practical:** Implement the Static routing in a network

**Theory:**

When we can connect two or more networks & build internetwork then it is require routing protocol to connect one host to another host of different network. We can manually define routing path. It will work until we make significant change in physical structure of topology. Static routing is defined by network administer manually. Static routing is not routing protocol.

**Code:**

**Configuration of router R1-**

R1(config)#int loop

R1(config)#int loopback 0

R1(config-if)#ip address 10.0.0.1 255.0.0.0

R1(config-if)#exit

R1(config)#int fast

R1(config)#int fastEthernet 0/0

R1(config-if)#ip address 11.0.0.1 255.0.0.0

R1(config-if)#no shut

\*Mar 1 00:03:28.367: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up

\*Mar 1 00:03:29.367: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

R1(config-if)#exit

**Configuration of router R2-**

R2#config t

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

R2(config)#int loopback 0

R2(config-if)#ip address 12.0.0.1 255.0.0.0

R2(config-if)#exit

R2(config)#int fastEthernet 0/0

R2(config-if)#ip address 11.0.0.2 255.0.0.0

R2(config-if)#no shut

\*Mar 1 00:09:12.983: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up

\*Mar 1 00:09:13.983: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

R2(config-if)#exit

**Static route for router R1-**

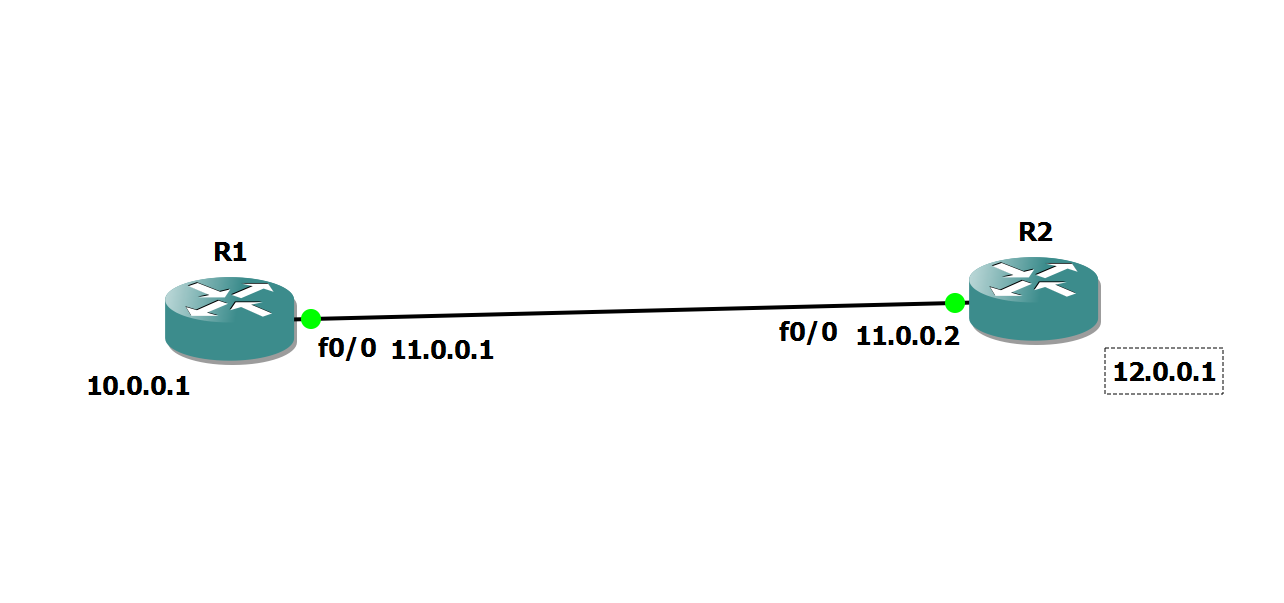
R1(config)#ip route 12.0.0.0 255.0.0.0 11.0.0.2

R1(config)#exit

**Static route for router R2-**

R1(config)#ip route 10.0.0.0 255.0.0.0 11.0.0.1

R1(config)#exit

**Screenshot: **