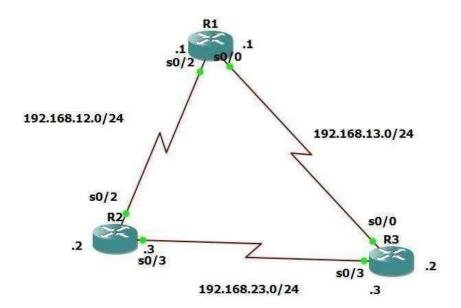
Practical No: 8 A

Aim: Configuring MPLS (On GNS3).



Configure router R1:-

R1#conf t R1(config)#int se1/0

R1(config-if)#ip add 192.168.13.1 255.255.255.0

R1(config-if)#no shut

R1(config-if)#exit

R1(config)#int se1/2

R1(config-if)#ip add 192.168.12.1 255.255.255.0

R1(config-if)#no shut

R1(config-if)#exit

Configure router R2

R2#conf t

R2(config)#int se1/2

R2(config-if)#ip add 192.168.12.2 255.255.255.0

R2(config-if)#no shut

R2(config-if)#exit

R2(config)#int se1/3

R2(config-if)#ip add 192.168.23.1 255.255.255.0

R2(config-if)#no shut

R2(config-if)#exit

Configure Router R3

R3#conf t

R3(config)#int se1/0

R3(config-if)#ip add 192.168.13.2 255.255.255.0

R3(config-if)#no shut

R3(config-if)#exit

R3(config)#int se1/3

R3(config-if)#ip add 192.168.23.2 255.255.255.0

R3(config-if)#no shut

R3(config-if)#exit

Configure OSPF on R1

R1#conf t

R1(config)#router ospf 1

R1(config-router)#network 192.168.12.0 255.255.255.0 area 0

R1(config-router)#network 192.168.13.0 255.255.255.0 area 0

R1(config-router)#end

Configure OSPF on R2

R2#conf t

R2(config)#router ospf 1

R2(config-router)#network 192.168.12.0 255.255.255.0 area 0

R2(config-router)#network 192.168.23.0 255.255.255.0 area 0

R2(config-router)#end

Configure OSPF on R3

R3#conf t

R3(config)#router ospf 1

R3(config-router)#network 192.168.13.0 255.255.255.0 area 0

R3(config-router)#network 192.168.13.0 255.255.255.0 area 0

R3(config-router)#network 192.168.23.0 255.255.255.0 area 0

R3(config-router)#end

Enable MPLS on R1

R1#conf t

R1(config)#int se1/0

R1(config-if)#mpls ip

R1(config-if)#int se1/2

R1(config-if)#mpls ip

Enable MPLS on R2

R2#conf t

R2(config)#int se1/2

R2(config-if)#mpls ip

R2(config-if)#int se1/3

R2(config-if)#mpls ip

Enable MPLS on R3

R3#conf t

R3(config)#int se1/0

R3(config-if)#mpls ip

R3(config-if)#int se1/3

R3(config-if)#mpls ip

Check MPLS interface

```
R1#sh mpls int
Interface IP Tunnel Operational
Serial1/0 Yes (ldp) No Yes
Serial1/2 Yes (ldp) No Yes
R1#
```

Check MPLS interface

R2#sh mpls int			136		
Interface	IP		Tunnel	Operational	
Serial1/2	Yes	(ldp)	No	Yes	
Serial1/3	Yes	(1dp)	No	Yes	
R2#					~

Check MPLS interface