EXPERIMENT – 9

AIM: Configure the classful addressing in the network using packet tracer.

Steps:

1. Topology: 3 Routers (R0 ↔ R1 ↔ R2) , 3 Switches, 6 PCs (2 per router)

2. IP Configuration

Default Gateway	PC	IP Address
192.168.1.1	PC0	192.168.1.10
192.168.1.1	PC1	192.168.1.11
192.168.2.1	PC2	192.168.2.10
192.168.2.1	PC3	192.168.2.11
192.168.3.1	PC4	192.168.3.10
192.168.3.1	PC5	192.168.3.11

Routers:

IP Address	Router	Interface
192.168.1.1	R0	Fa0/0
10.0.0.1	R0	Fa0/1
10.0.0.2	R1	Fa0/0
20.0.0.1	R1	Fa0/1
192.168.2.1	R1	Fa1/0
20.0.0.2	R2	Fa0/0
192.168.3.1	R2	Fa0/1

3. Static Routes

R0: To 192.168.2.0 and 192.168.3.0 via 10.0.0.2

R1: To 192.168.1.0 via 10.0.0.1, To 192.168.3.0 via 20.0.0.2

R2: To 192.168.1.0 and 192.168.2.0 via 20.0.0.1

4. Test: From PC1, ping 192.168.3.10 , If it works, your setup is complete