<u>Assignment - 3</u>

Connecting of static routing with 4 routers.

Procedure:

Step 1: Take 4 Routers (Router0, Router1, Router2, Router3), 4 Switches

(Switch0-Switch3), 8 PCs (PC0-PC7)

Step 2: Connect the 4 Routers, 4 Switches, 7 PC's:

 $\mbox{Step 2.1} \qquad : \qquad \mbox{Router0} \rightarrow \mbox{Router1} \rightarrow \mbox{Router2} \rightarrow \mbox{Router3}$

Step 2.2 : Router $0 \rightarrow \text{Switch } 0$, Router $1 \rightarrow \text{Switch } 1$,

Router2 → Switch2, Router3 → Switch3

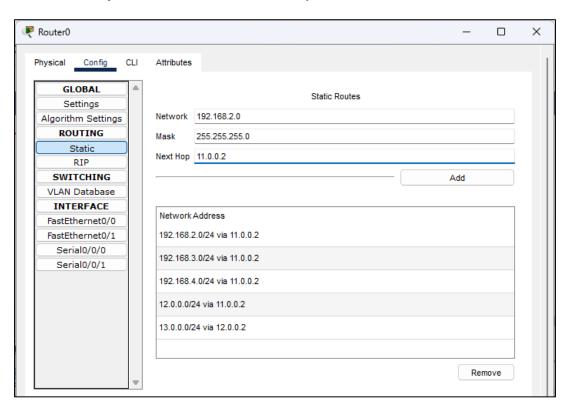
Step 2.3 : And all the PC's connected to the switches like in diagram

Step 3: Assign separate IP Address, Subnet Mask, and Default Gateway to

each PC in class C.

Step 4: Now set the routing for each Router by adding Network, Mask, Next Hop

just like that and do it for every router(Router0, Router1, ..., Router4):

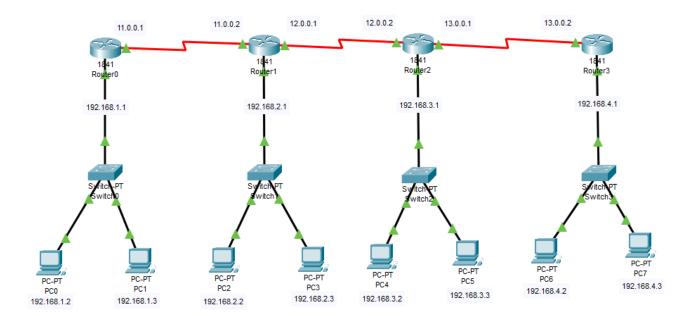


Step 4: Test the Network Connection.

Open any PC's Command Prompt and ping another PC's IP Address.

Step 5: If replies are successful, the connection works!

❖ Diagram:



❖ Output's:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.3.2

Pinging 192.168.3.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.3.2: bytes=32 time=15ms TTL=125
Reply from 192.168.3.2: bytes=32 time=11ms TTL=125
Reply from 192.168.3.2: bytes=32 time=3ms TTL=125
Ping statistics for 192.168.3.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 15ms, Average = 9ms
```

```
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.2: bytes=32 time=8ms TTL=126
Reply from 192.168.2.2: bytes=32 time=8ms TTL=126
Reply from 192.168.2.2: bytes=32 time=1ms TTL=126
Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 8ms, Average = 5ms
```