Assignment – 3

➕ 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:

     Step 2.1   :   Router0 → Router1 → Router2 → Router3

     Step 2.2   :   Router0 → Switch0, Router1 → Switch1, 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 & also configure the Gateway of each PC i.e. the private IP Address of Router's.

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):
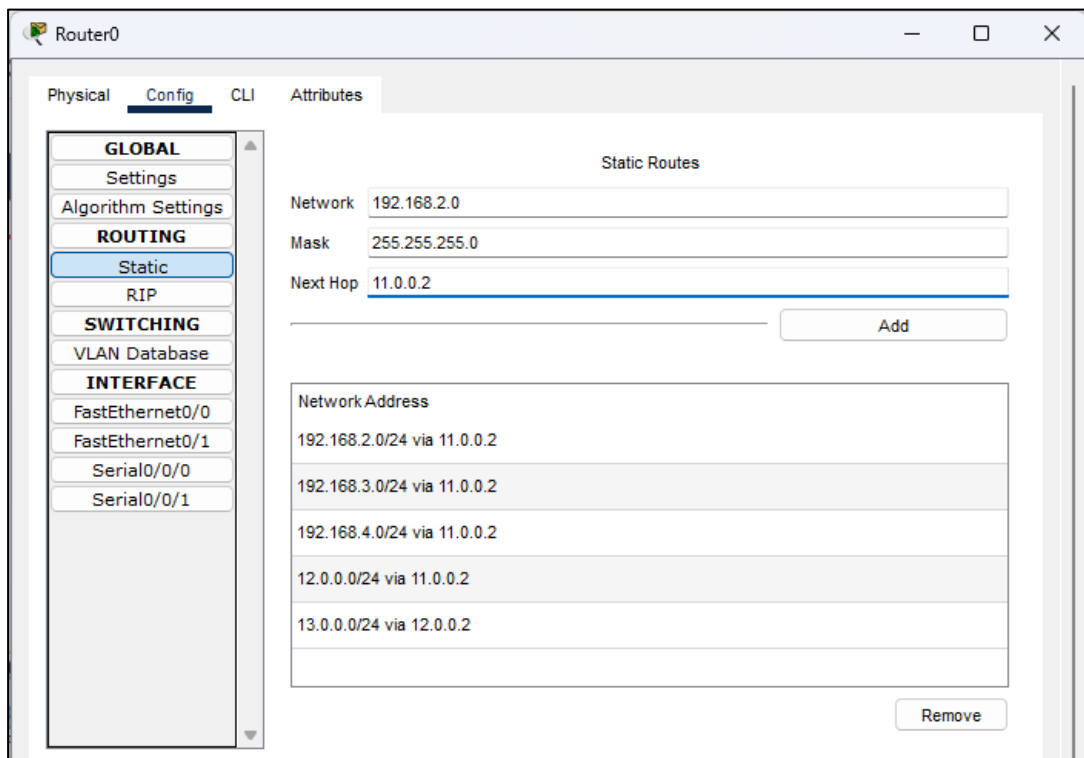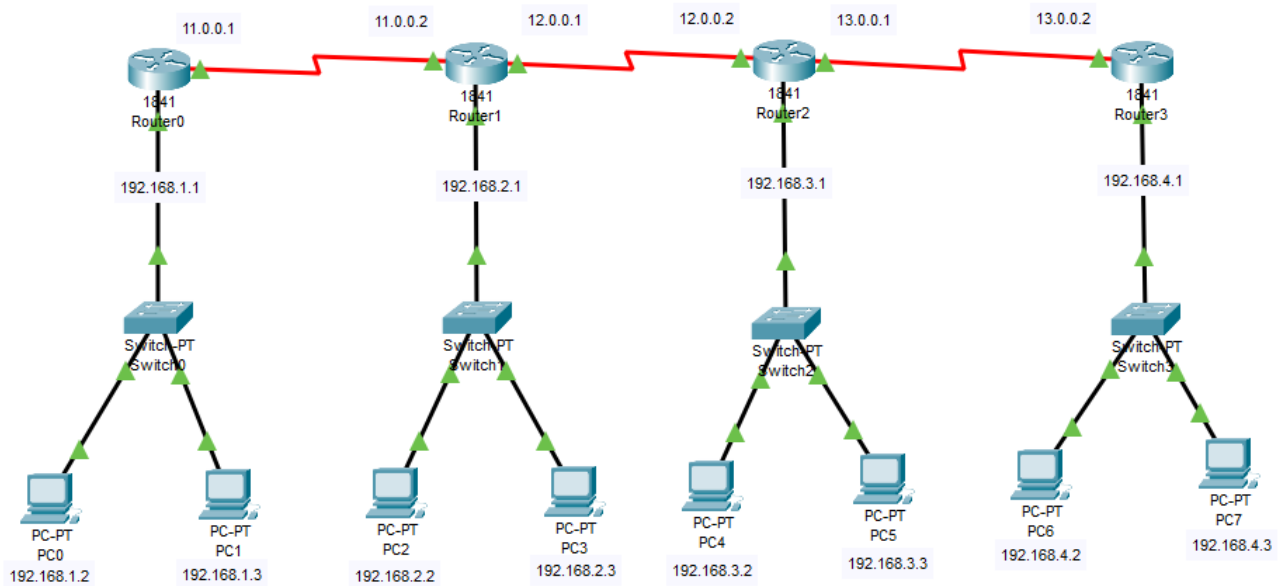

Step 4 :   Test the Network Connection.

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
```