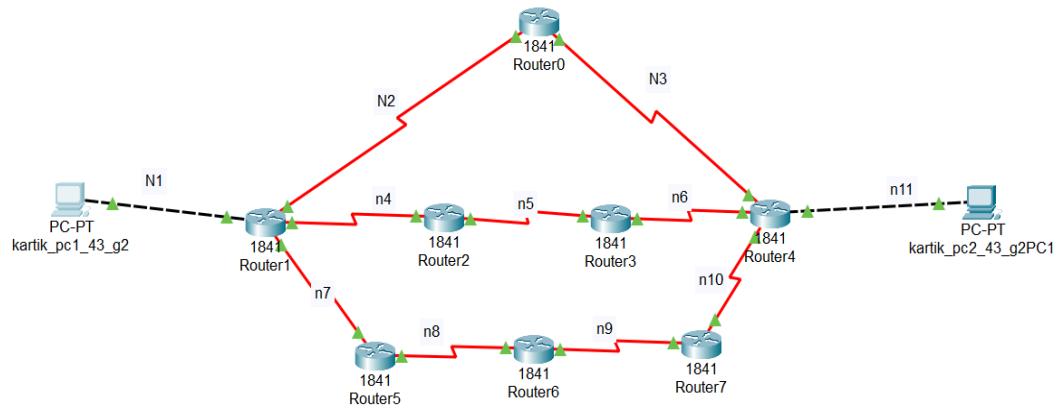
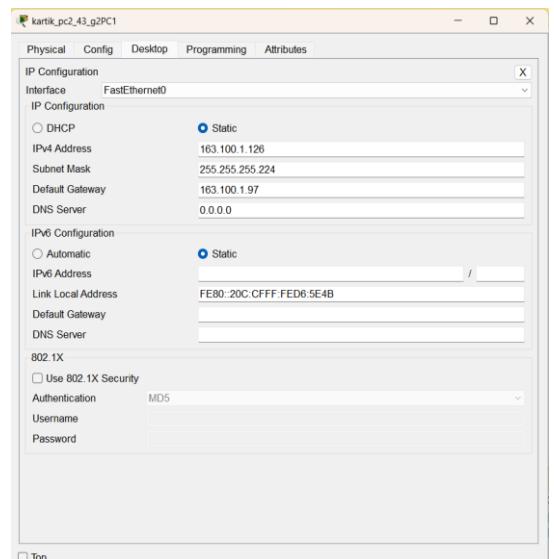
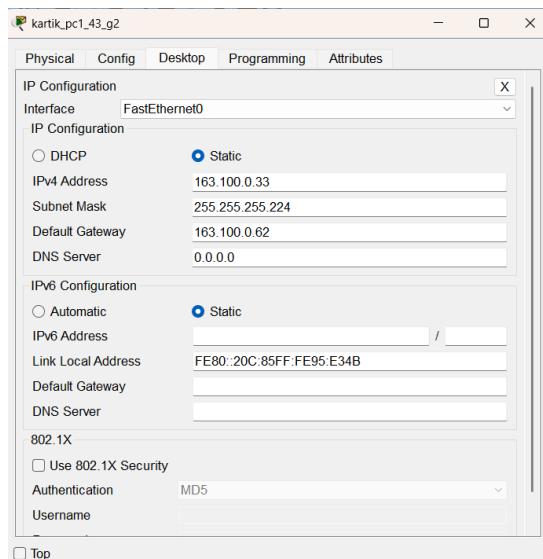


## Problem Statement 12:

### 1. Make a Network using 2 PC's and 8 Routers:



### 2. Set IP Addressing to PCs



### 3. Check Network Routes using command "tracert" command

```

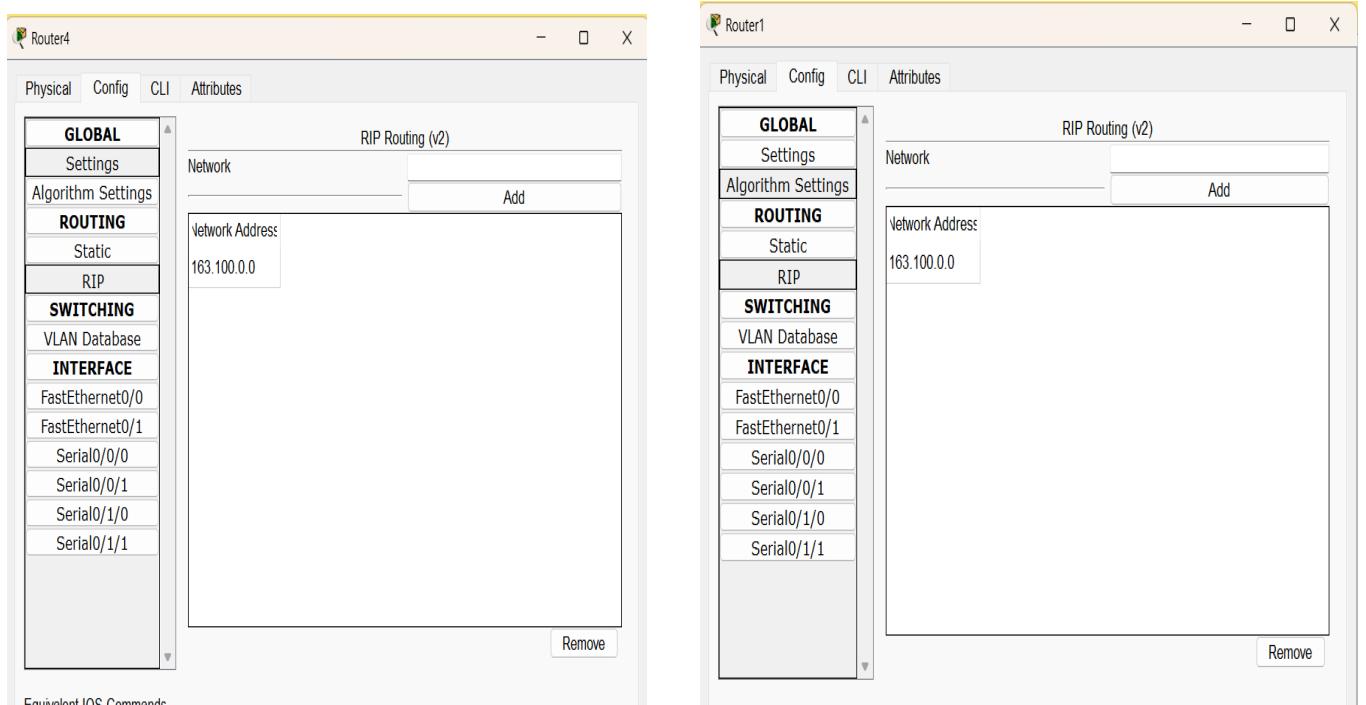
Cisco Packet Tracer PC Command Line 1.0
C:\>tracert 163.100.1.126

Tracing route to 163.100.1.126 over a maximum of 30 hops:

 1  0 ms      0 ms      0 ms      163.100.0.62
 2  11 ms     10 ms     10 ms      163.100.0.126
 3  1 ms       8 ms      1 ms      163.100.0.158
 4  5 ms       10 ms     27 ms      163.100.0.94
 5  0 ms       10 ms      0 ms      163.100.1.126

Trace complete.
  
```

## 4. Set dynamic Routing to the Routers



## 5 Tracking other Routes by turning off 1 router from network

The image shows a screenshot of the Cisco Packet Tracer Command Prompt window. The window has a title bar 'kartik\_pc1\_43\_g2' and a tab bar with 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Config' tab is selected. A 'Command Prompt' window is open, showing the output of several 'tracert' commands. The first command, 'C:\>tracert 163.100.1.126', shows a trace route to 163.100.1.126 over 5 hops. The second command, 'C:\>tracert 163.100.1.126', shows a second trace route to the same destination over 5 hops. The output for both traces is as follows:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>tracert 163.100.1.126

Tracing route to 163.100.1.126 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      163.100.0.62
  2  11 ms     10 ms     10 ms      163.100.0.126
  3  1 ms       8 ms      1 ms      163.100.0.158
  4  5 ms       10 ms     27 ms      163.100.0.94
  5  0 ms       10 ms      0 ms      163.100.1.126

Trace complete.

C:\>tracert 163.100.1.126

Tracing route to 163.100.1.126 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      163.100.0.62
  2  1 ms      18 ms     16 ms      163.100.0.126
  3  14 ms     25 ms     1 ms      163.100.0.158
  4  2 ms      24 ms     41 ms      163.100.0.190
  5  9 ms      9 ms      2 ms      163.100.1.126

Trace complete.

C:\>
```