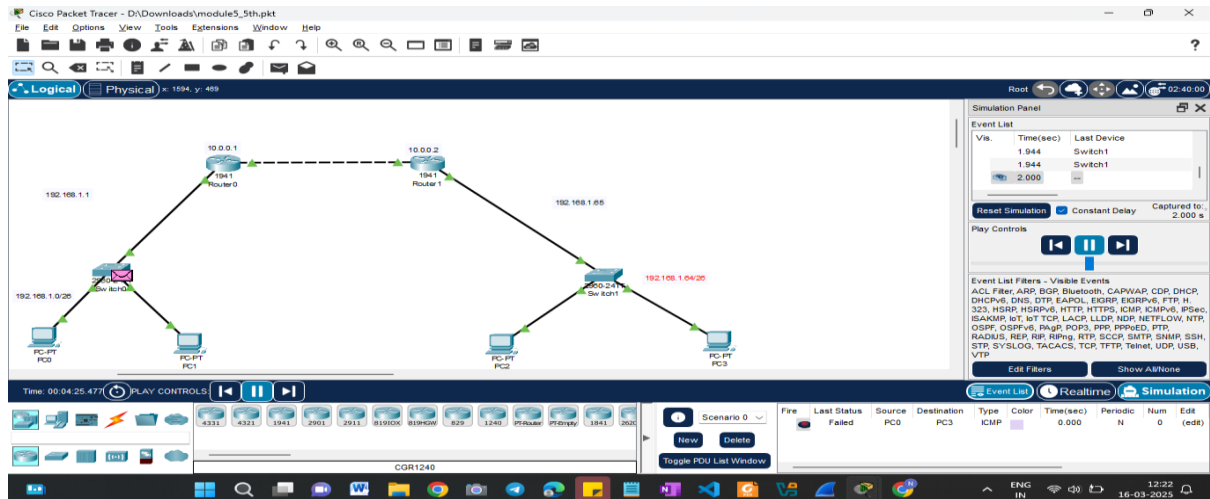


Q3) Given a network address of 10.0.0.0/24, divide it into 4 equal subnets. Calculate the new subnet mask. Determine the valid host range for each subnet.

Assign IP addresses to devices in Packet Tracer and verify connectivity.

Subnet Ranges:

Subnet No.	Network Address	First Host	Last Host	Broadcast Address
1	10.0.0.0/26	10.0.0.1	10.0.0.62	10.0.0.63
2	10.0.0.64/26	10.0.0.65	10.0.0.126	10.0.0.127
3	10.0.0.128/26	10.0.0.129	10.0.0.190	10.0.0.191
4	10.0.0.192/26	10.0.0.193	10.0.0.254	10.0.0.255



```

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.64

Pinging 192.168.1.64 with 32 bytes of data:
Request timed out.
Reply from 10.0.0.2: bytes=32 time=6ms TTL=254
Reply from 10.0.0.2: bytes=32 time=6ms TTL=254
Reply from 10.0.0.2: bytes=32 time=6ms TTL=254

Ping statistics for 192.168.1.64:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 6ms, Maximum = 6ms, Average = 6ms

C:\>

```