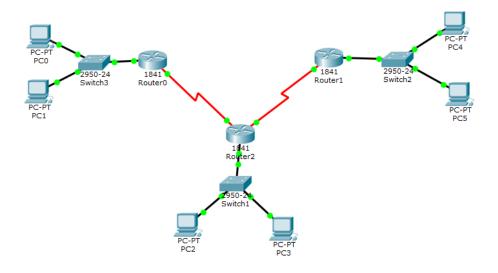
Project Name: Subnetting Implementation and Create a Network Using Subnetting from 192.168.10.0/27 IP Address.

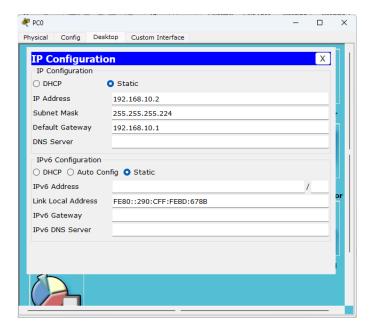
Subnetting Table

Network No.	Network Address	1 st Usable Address	2 nd Usable Address	Last Usable Address	Broadcast Address	Subnet Mask
1	192.168.10.0/27	192.168.10.1	192.168.10.0	192.168.10.0	192.168.10.0	255.255.255.224
2	192.168.10.32/27	192.168.10.0	192.168.10.0	192.168.10.0	192.168.10.0	255.255.255.224
3	192.168.10.64/27	192.168.10.0	192.168.10.0	192.168.10.0	192.168.10.0	255.255.255.224
4	192.168.10.96/27	192.168.10.0	192.168.10.0	192.168.10.0	192.168.10.0	255.255.255.224
5	192.168.10.128/27	192.168.10.0	192.168.10.0	192.168.10.0	192.168.10.0	255.255.255.224

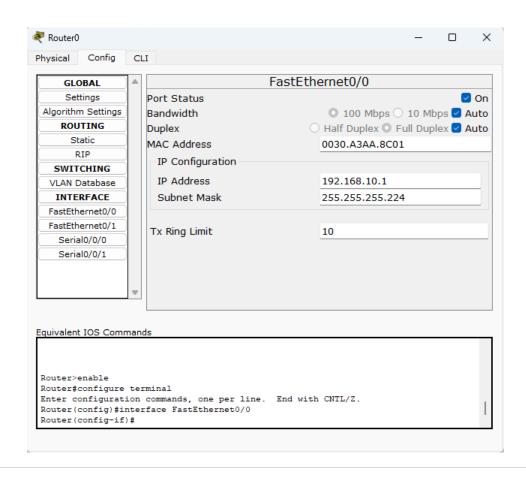
Connection Diagram of Network



PC Configuration



Router Configuration



Verifying the network by pinging the IP address

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.10.2

Pinging 192.168.10.2 with 32 bytes of data:

Reply from 192.168.10.2: bytes=32 time=lms TTL=126
Reply from 192.168.10.2: bytes=32 time=2ms TTL=126

Ping statistics for 192.168.10.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = lms, Maximum = 2ms, Average = 1ms
```

Simulation Result

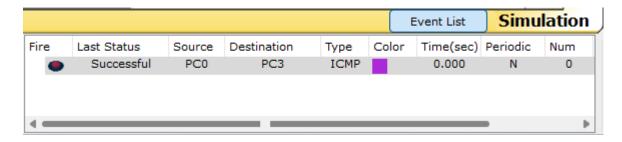


Fig 3.6 Output of the simulation