EXPERIMENT-9

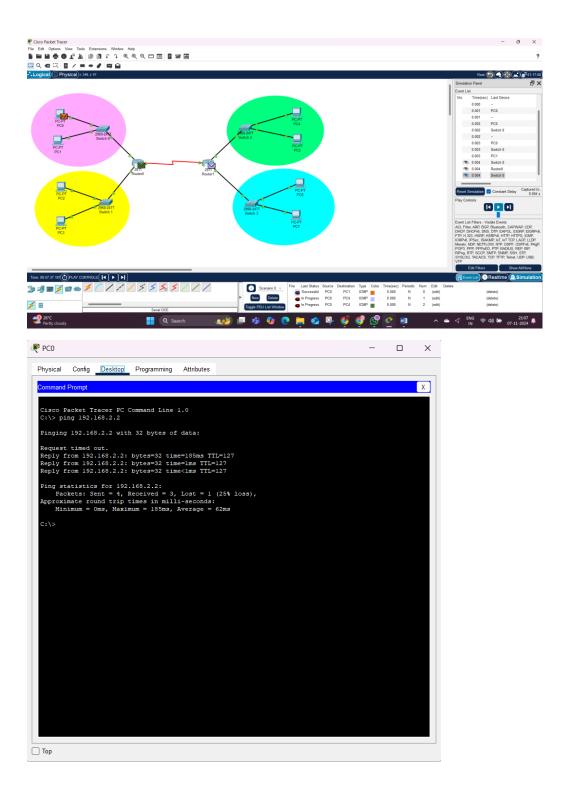
AIM:-Implementation of SUBNETTING in CISCO PACKET TRACER simulator.

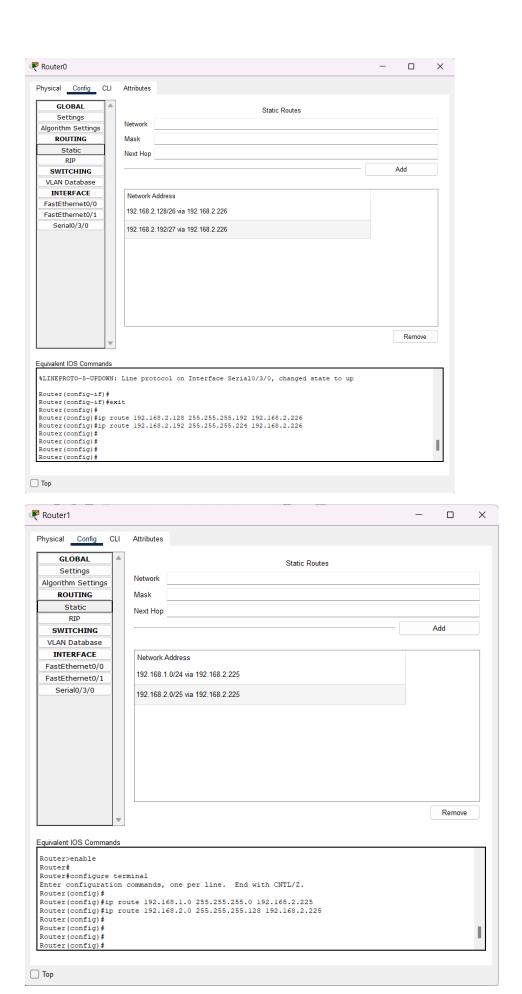
What is subnetting?

Classless IP subnetting is a technique that allows for more efficient use of IP addresses by allowing for subnet masks that are not just the default masks for each IP class. This means that we can divide our IP address space into smaller subnets, which can be useful when we have a limited number of IP addresses but need to create multiple networks.

OUTPUT:







```
PC0
   Physical Config Desktop Programming Attributes
                                                                                                                                                                                                                                 Х
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 185ms, Average = 62ms
     C:\> ping 192.168.2.129
     Pinging 192.168.2.129 with 32 bytes of data:
    Reply from 192.168.1.100: Destination host unreachable.
    Ping statistics for 192.168.2.129:
     Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    C:\> ping 192.168.2.193
     Pinging 192.168.2.193 with 32 bytes of data:
    Request timed out.

Reply from 192.168.2.193: bytes=32 time=10ms TTL=126

Reply from 192.168.2.193: bytes=32 time=16ms TTL=126

Reply from 192.168.2.193: bytes=32 time=3ms TTL=126
    Ping statistics for 192.168.2.193:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 16ms, Average = 9ms
    C:\> ping 192.168.2.193
    Pinging 192.168.2.193 with 32 bytes of data:
   Reply from 192.168.2.193: bytes=32 time=24ms TTL=126
Reply from 192.168.2.193: bytes=32 time=10ms TTL=126
Reply from 192.168.2.193: bytes=32 time=1ms TTL=126
Reply from 192.168.2.193: bytes=32 time=1ms TTL=126
    Fing statistics for 152.168.2.193:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = lms, Maximum = 24ms, Average = 11ms
Пор
```

RESULT: -

Implementation of SUBNETTING in CISCO PACKET TRACER simulator have been done successfully

