

Assignment 7

3rd October 2019

1. Use CISCO packet tracer to create a network topology as shown in Fig. 1, and configure the network with Open Shortest Path First (OSPF) protocol.

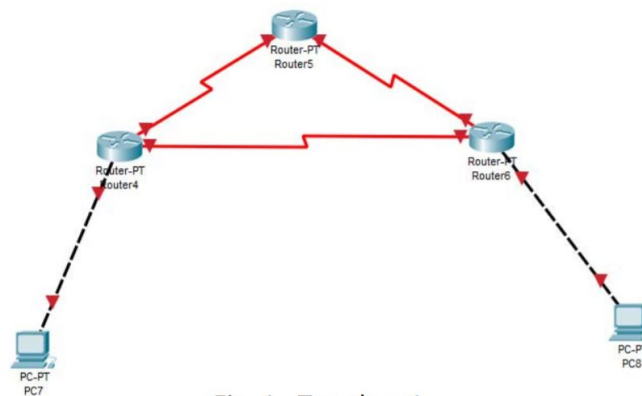
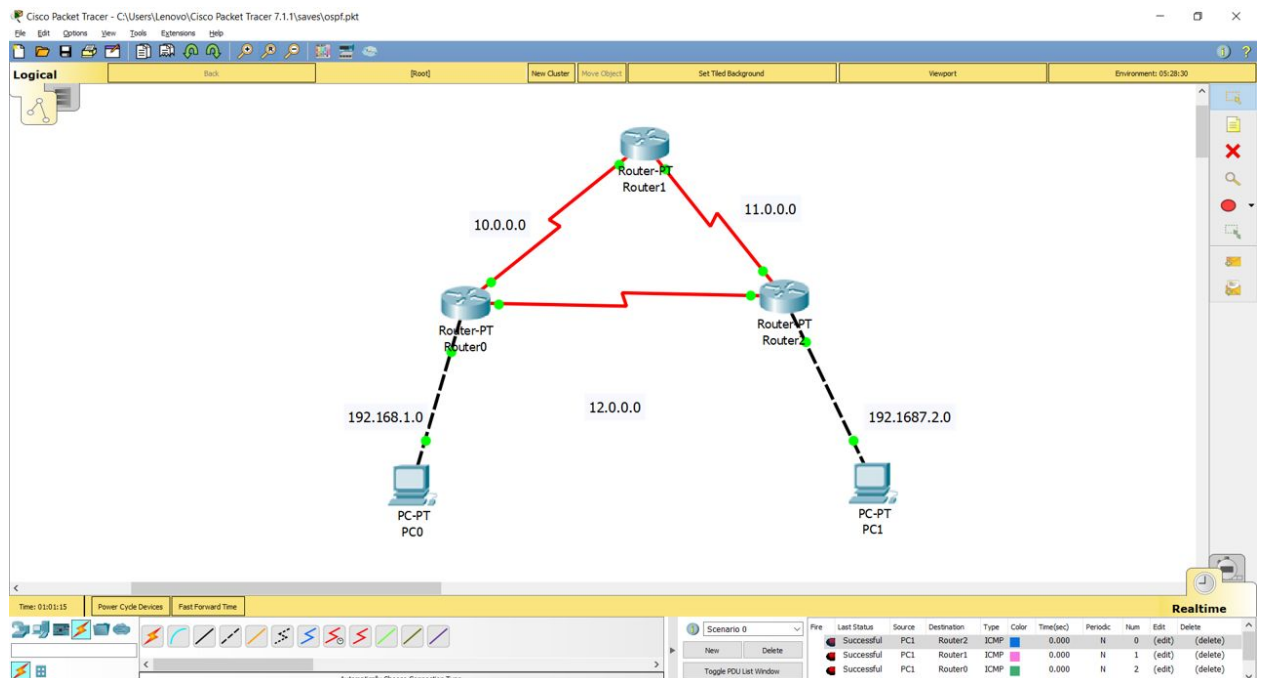
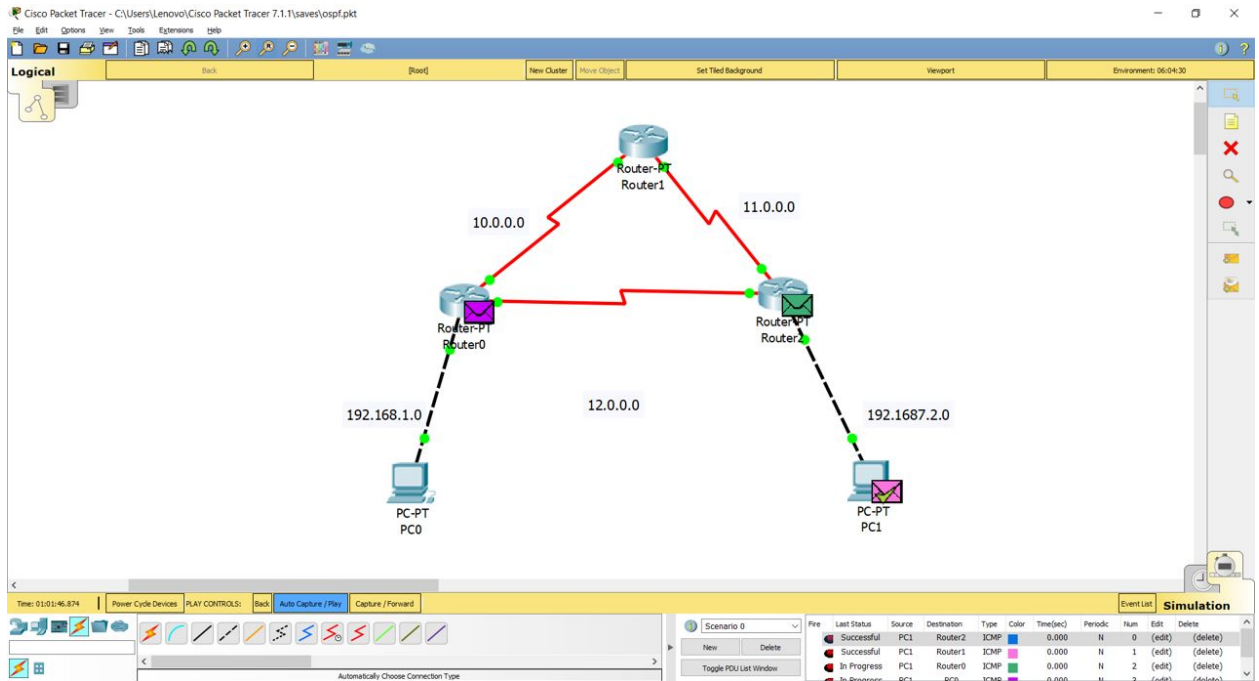


Fig. 1: Topology1

Answer:





2. Use CISCO packet tracer to demonstrate Address Resolution Protocol (ARP) in a ring topology as shown in Fig. 2

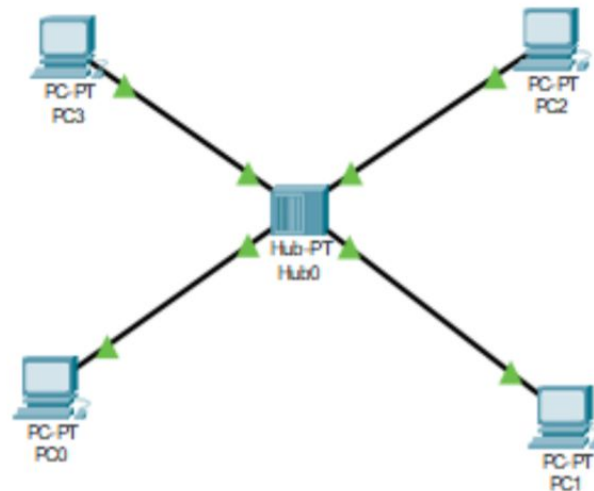
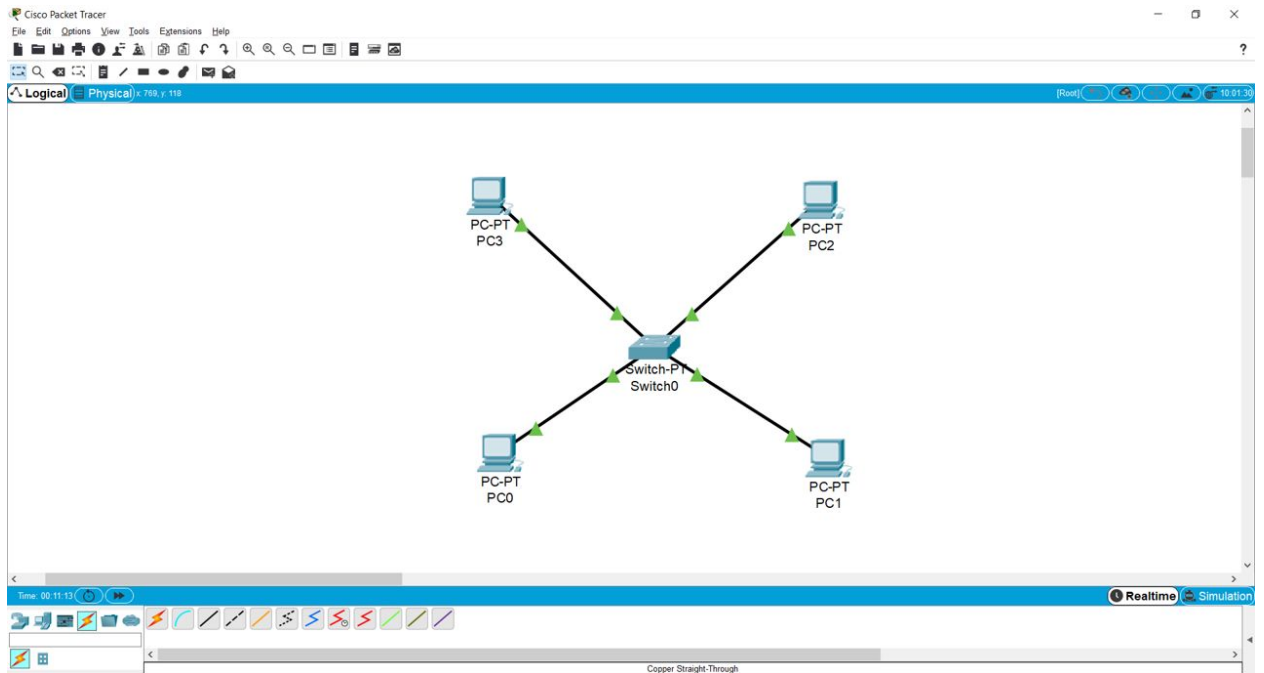


Fig. 2: Ring Topology

Answer:



PC2

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>arp -a
    Internet Address      Physical Address      Type
    192.168.1.1           0090.0c56.134d       dynamic

C:\>ping 192.168.1.3
Invalid Command.

C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=3ms TTL=128
Reply from 192.168.1.3: bytes=32 time=3ms TTL=128
Reply from 192.168.1.3: bytes=32 time=1ms TTL=128
Reply from 192.168.1.3: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 2ms

C:\>arp -a
    Internet Address      Physical Address      Type
    192.168.1.1           0090.0c56.134d       dynamic

C:\>
```

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