

EXPERIMENT-1

Q) Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate ping message.

create a topology hence simulate sending a simple PDU from source to destination using hub & switch as connecting devices.

Diagram: - Topology

Procedure:-

- 1) At first open real time interface
- 2) Take 2 computer & hub.
- 3) Connect them but by the same straight wire
- 4) place three PC-Pt on workspace and HUB 17
- 5) Choose connect straight through wire and make the respective connection from Port 0 to one of PC-Pt and Port 1 to first ethernet of another PC-Pt and so on.
- 6) Assign IP address 10.0.0.4, 10.0.0.5, 10.0.0.6.
- 7) Send packet from one PC-Pt to another
- 8) Connect hub PT and switch PT using copper crossover and then send a packet from one of the PC-Pt among different networks

IP

PC > Ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:

Reply from 10.0.0.4: bytes=32 time=12ms TTL=128

Reply from 10.0.0.4: bytes=32 time=6ms TTL=128

Reply from 10.0.0.4: bytes=32 time=6ms TTL=128

Reply from 10.0.0.4: bytes=32 time=6ms TTL=128

Ping statistics for 10.0.0.4

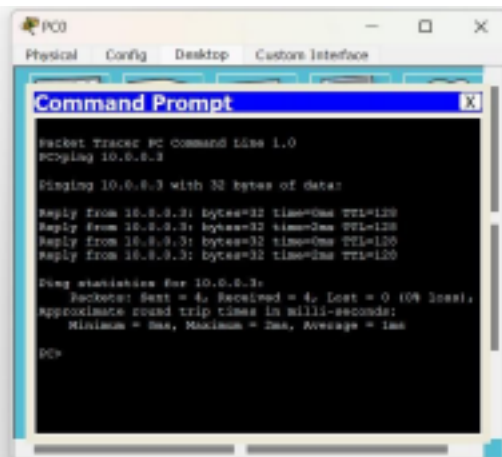
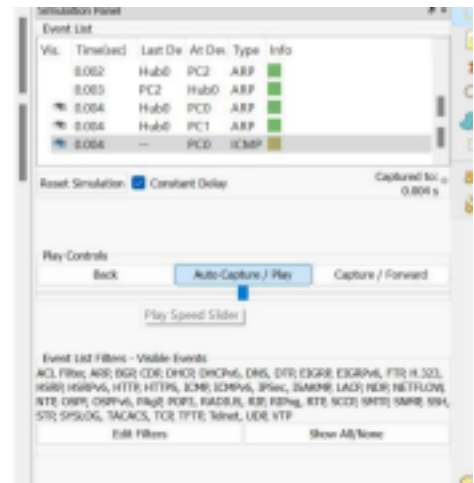
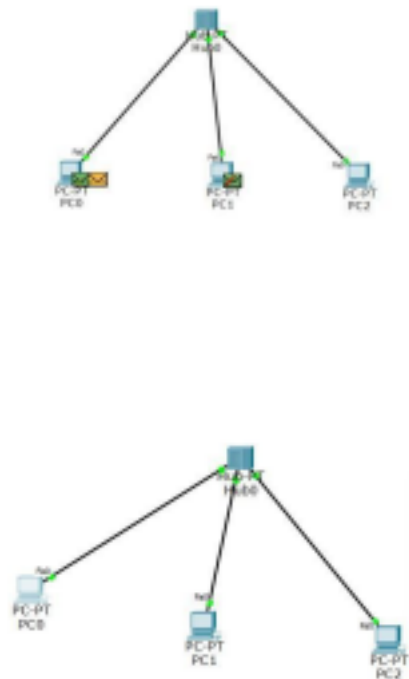
Packets: sent=4, received=4, lost=0 (0% loss)

Approx time: 5 ms, min=6ms, 12ms, Avg=7ms

15/11/2023

TOPOLOGY & OUTPUT

1. Hub and PCs



2. Switch and PCs

