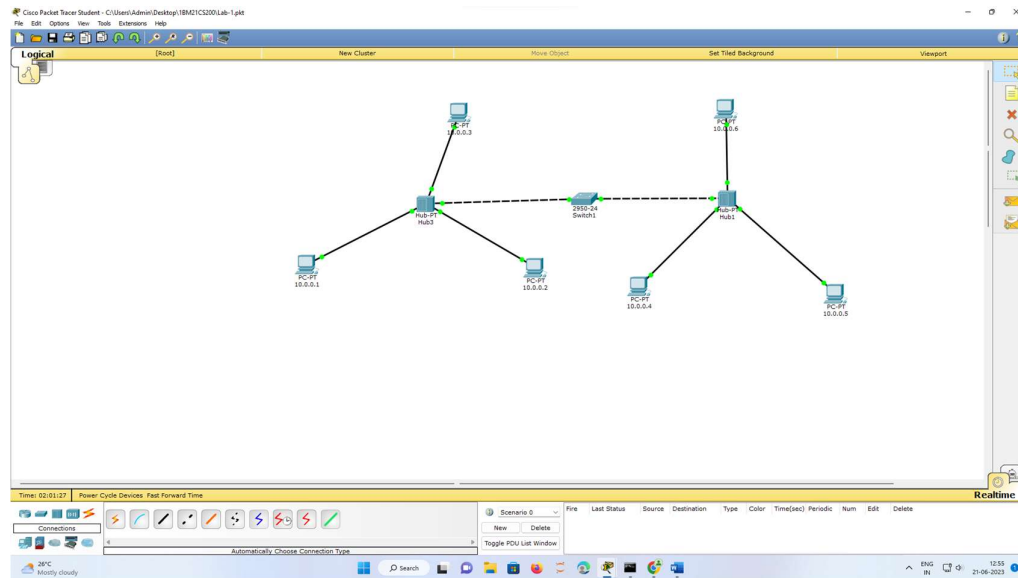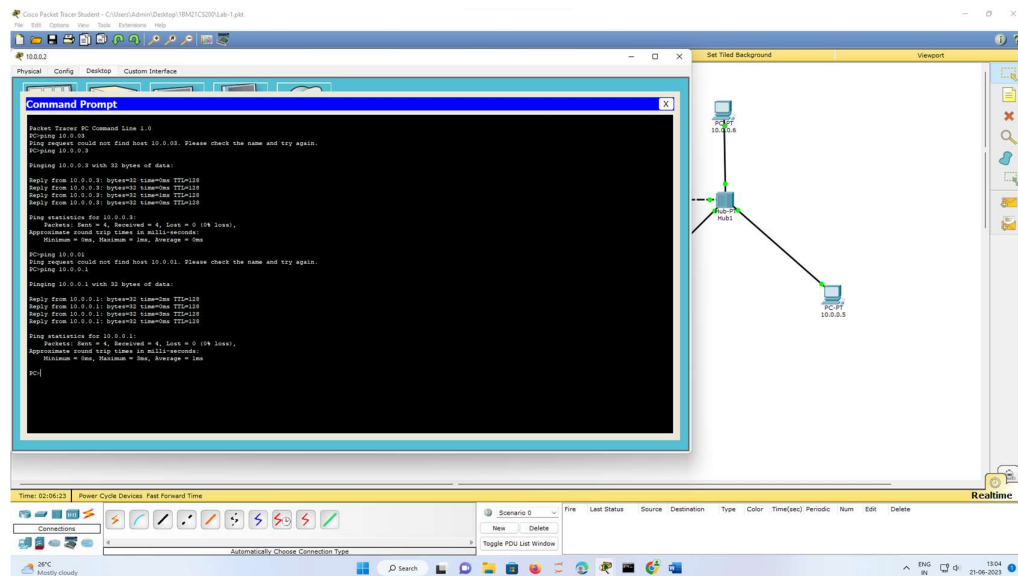# CN Lab-1

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1BM21CS200

Hybrid

Ping command output

Outcomes:

Q. Create a topology consisting of two or more end devices connected with the help of hub and switch, and thus simulate a simple PDU

Outcomes:

Hub based topology
→ Hub acts as a dumb device
→ Hub sends the data packets to all the connected device except the source device

    → The Destination device accepts but other device rejects
    → The Destination device sends the acknowledgment & again the data packets flow as mentioned from step 2
    → Once source receive acknowledgment The transfer completes

Switch based topology
    → Switch acts as hub on initial data transfer
    → But once data transfer completes, & again new data pack is sent then following event occurs.
        • The data packet is sent to switch by source.
        • Switch sends it to only to destination
        • Destination device sends acknowledge ment back to switch & then to source only.

Hybrid (contains both switch, Hub)
- Here again switch acts as hub initially, but then it transfers data and acknowledge to respect source and destination
- If a device (connected) sends signal to hub, it sends it to all device including switch [Except source]
- If destination is present in another hub network, the switch sends signal to it
- Similarly acknowledgement signal travels back to source