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Computer Networks. lab

Batch - 3

Program - 1

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- i) Hub:- Works as a broadcasting device
- ii) Switch:- works as a unicasting device

Hub and Switch are connected through copper cross over cable.

Hub / Switch are connected to the devices through copper straight through cable.

Process of sending of data.

S1) Network connected with PC and hub. A simple PDU (protocol data unit) was simulated in the network.

- message transferred from PC to hub in layer 1.
- Message transferred from hub to the other PC. In layer 3 we de-encapsulate and transfer the message and it is finally encapsulated.
- The message is transferred to other PC from hub and is decapsulated.

Each PC must have a unique IP address and a common gateway.

S2) Network connected with PC, hub and switch. A simple PDU was simulated in the network.

- message transferred between PC1 and hub.
- message broadcasted to the other PC (PC-2) and the switch.
- The switch transfers message to required PC (PC-3)

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