

1BM18CS122 VARAD VITHAL

KJ

EXPERIMENT 1

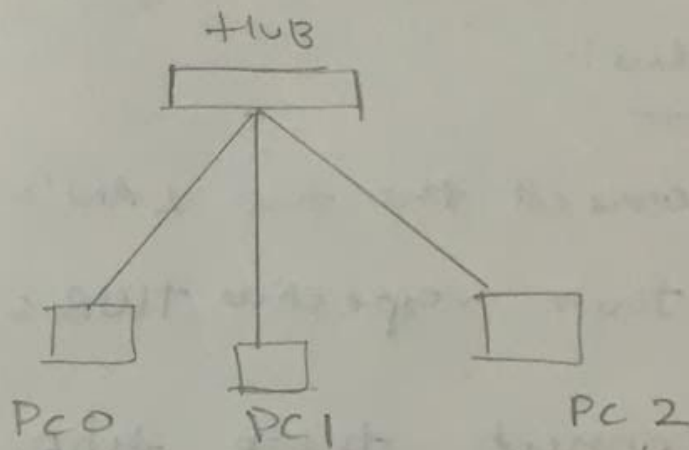
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Exp-1

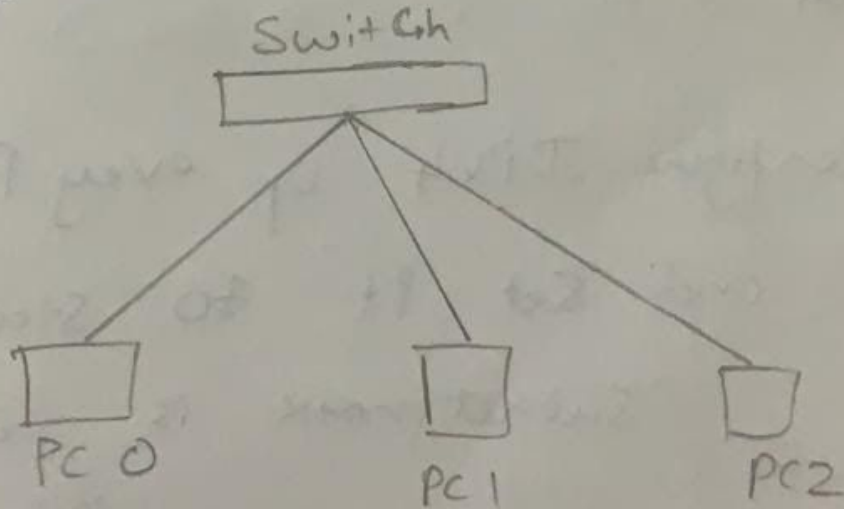
Demonstrate Working of switch, Hub

Topology:-

Hub:-

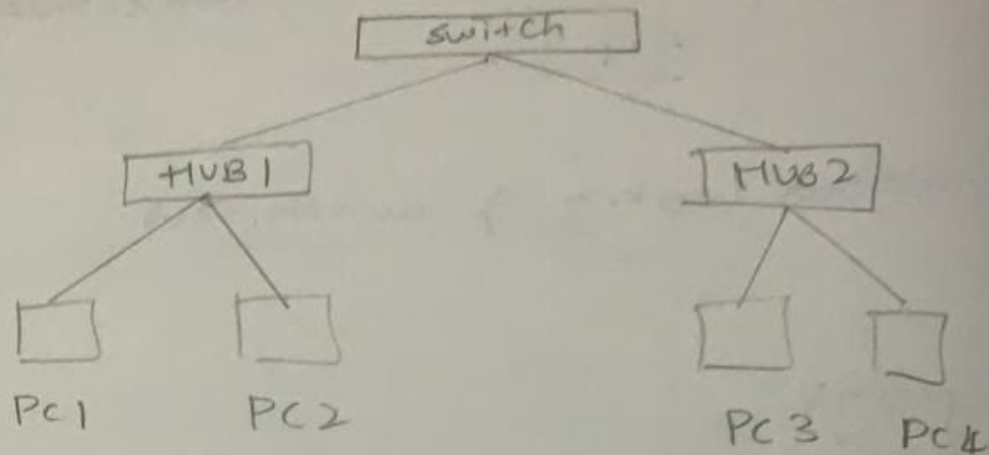


Switch:-



2 Hub and Switch:-

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IBM 18C8122



Procedure:-

(i) Connect the two LAN's (two PC's to their respective HUB's)

ii) Connect those HUBs to the Switch

iii) Configure IPV4 of every PC and set it to static, Subnet mask is set automatically

✓

Observation:-

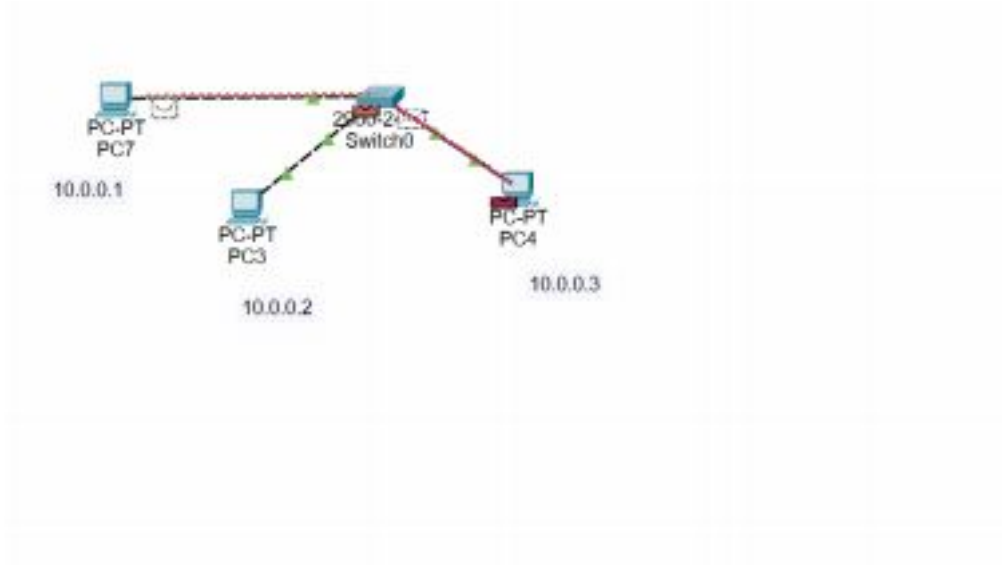
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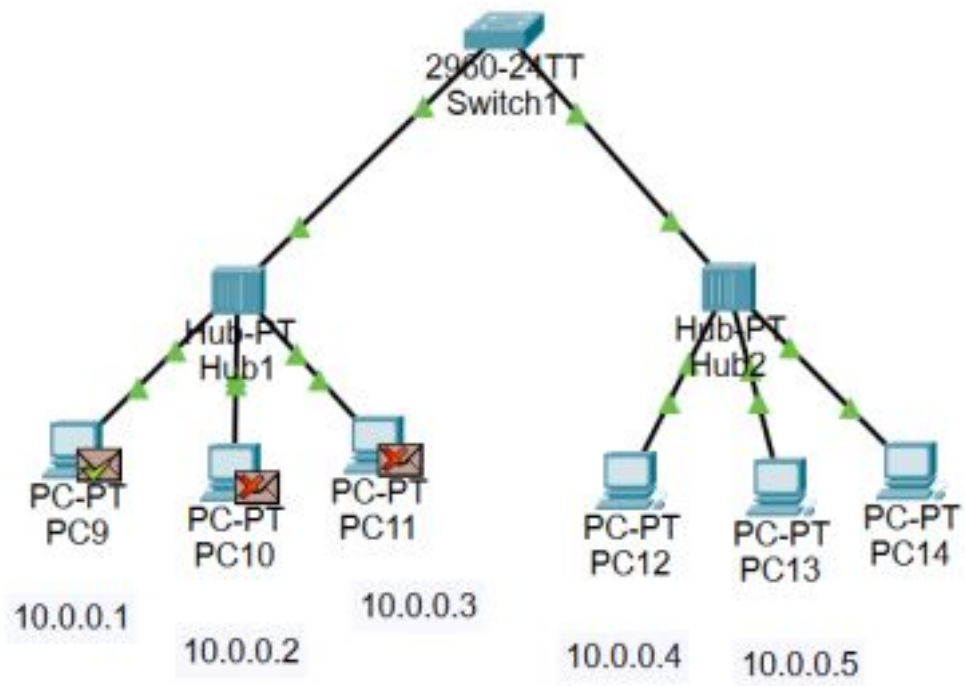
1) The Switch is a Smart device and it sends the frame exactly to the destination ~~the~~ MAC address without broadcasting it to the whole network.

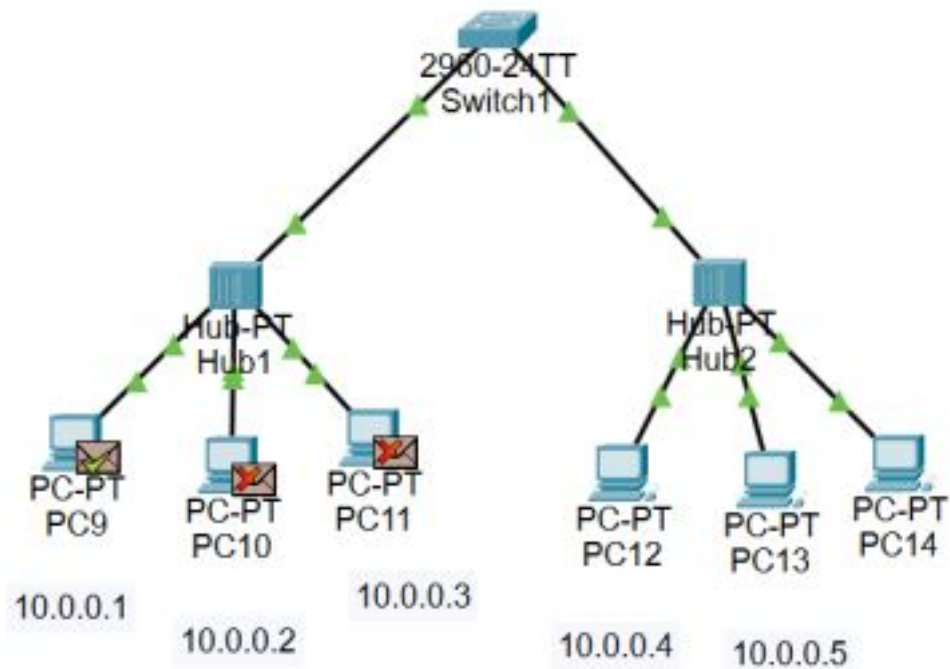
2) The HUB is a dumb device & it broadcasts a data frame across all it devices & the it does the same to the replies.

WORKING OF SWITCH-



WORKING OF HUB- 2 HUBS CONNECTED TO A SWITCH-





OUTPUT/OBSERVATION

- 1)The **switch** is a smart device and send the frame exactly to the destination IP address without broadcasting it to the whole network
- 2)The **Hub** is a dumb device and it broadcasts a data frame across all its devices and also broadcasts the

reply across the network too