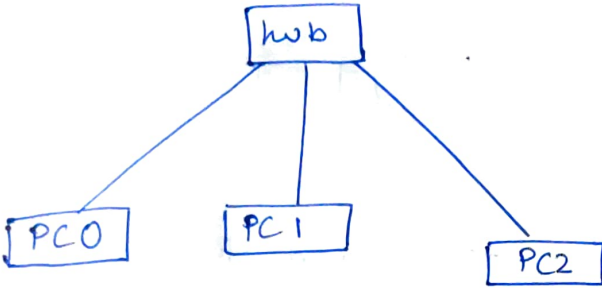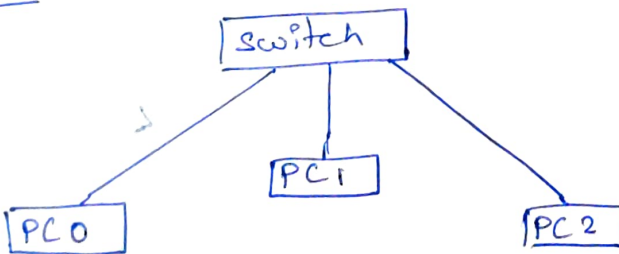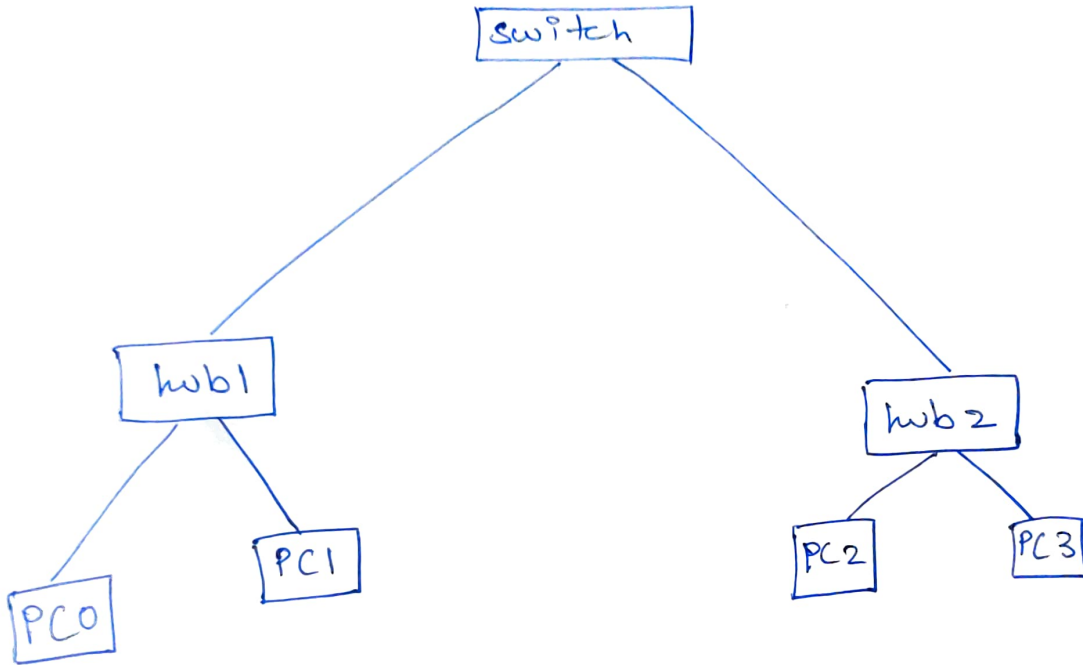Shiva Praneeth. Kodeli
IBM18CS100

Lab 1

hub

Hub is a simple device that does not learn its environment. i.e if PC0 has to send a package to PC2 through hub, then PC1 will also recieve it.

We use copper straight-through wire for connections.

switch

Switch is a smart device that learns which system is connected to which port. For example, if PC0 sends package to PC2 through a switch, then PC1 will not recieve anything. Straight through wires are used.

Shiva

Switch + hub :

The PC's are connected to hubs through straight through wires and the hubs are connected to the switch through cross-over wires.

When PC0 wants to send a message to PC3 it will to to hub1 , hub1 will send it to switch and PC1 , PC1 will reject it. The switch will send the message to hub2, hub2 will send it to PC2 & PC3. PC3 accepts and sends acknoledgment. back to hub 2 , hub2 will send this to PC2 and switch. The switch will send it to hub1. Hub1 will push it through to PC0 and PC1. PC0 will accept.

Shiva