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Layers are — (for both case)

1. Application layer
~~2. Transport layer~~
2. Data Link layer
3. Physical layer (complicated for fibre optic, simple for copper cable)

Application layer will work with the only application installed in the computers. It will make a presentation of data (merging the work of presentation layer). No session layer is required, because only one application is in each computer.

Transport layer will not be needed ~~to synchronize between end-to-end~~. As we do not need anything to do with end-to-end communication (like congestion control).

Every computer has only one outgoing degree, that's why, all of these things will be done in Data-Link layer. As the direction and next node for each node is fixed, data link will simply work for transmission, synchronization, ~~checking sum~~ acknowledge etc. ~~It will also check~~ (checking success for reaching next node)

~~whether current node was the starter of coming transmission~~

Finally, the physical layer will work to send bit/raw level data via the wires. Fiber optic and copper cable medium are built ~~here.~~ in the system.

As, in a fiber optic, large number of harmonics are sent, its physical layer will be more complicated than the case of copper cable, which only needs selective harmonic. We may even merge physical layer and data link layer in case of copper cable.