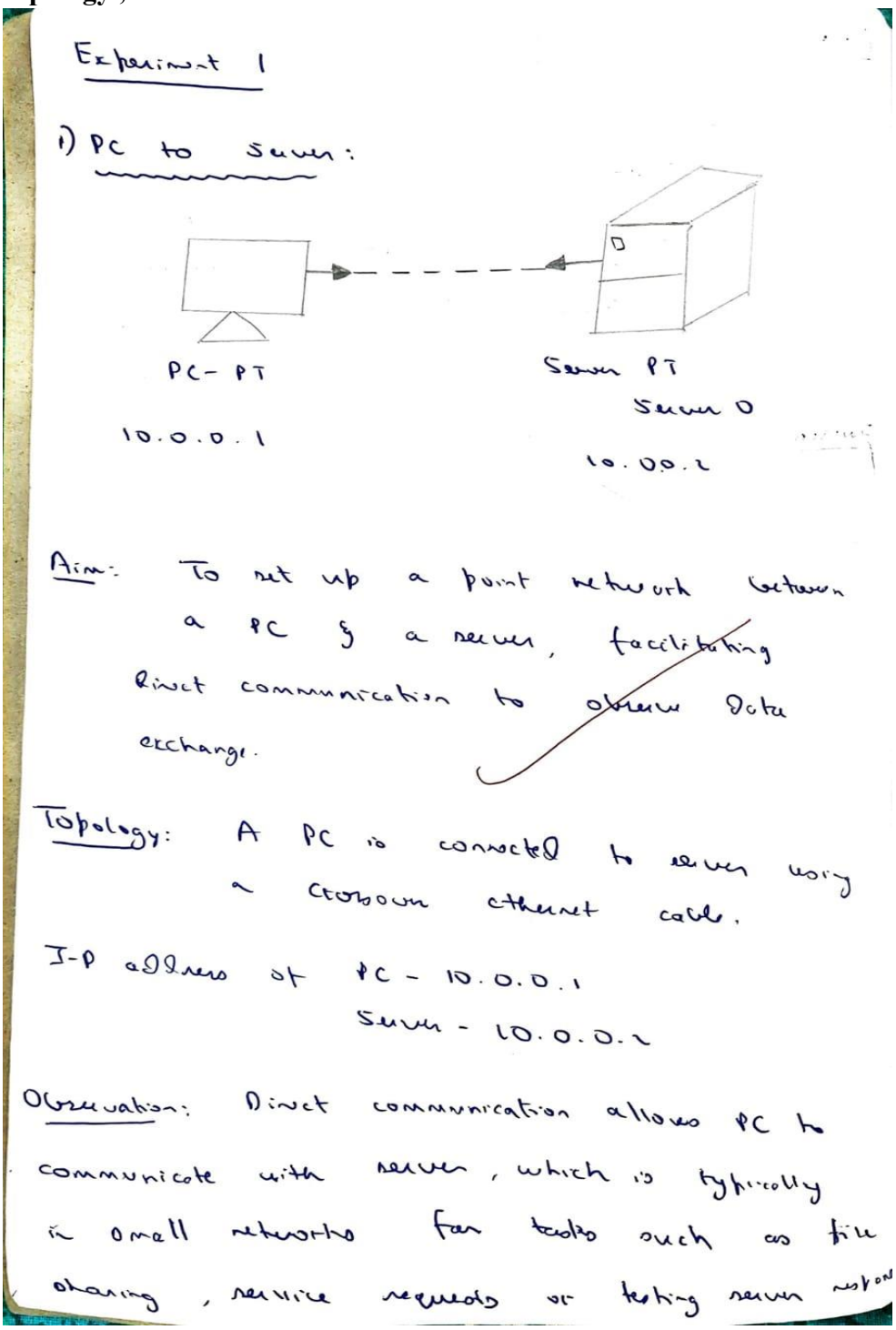
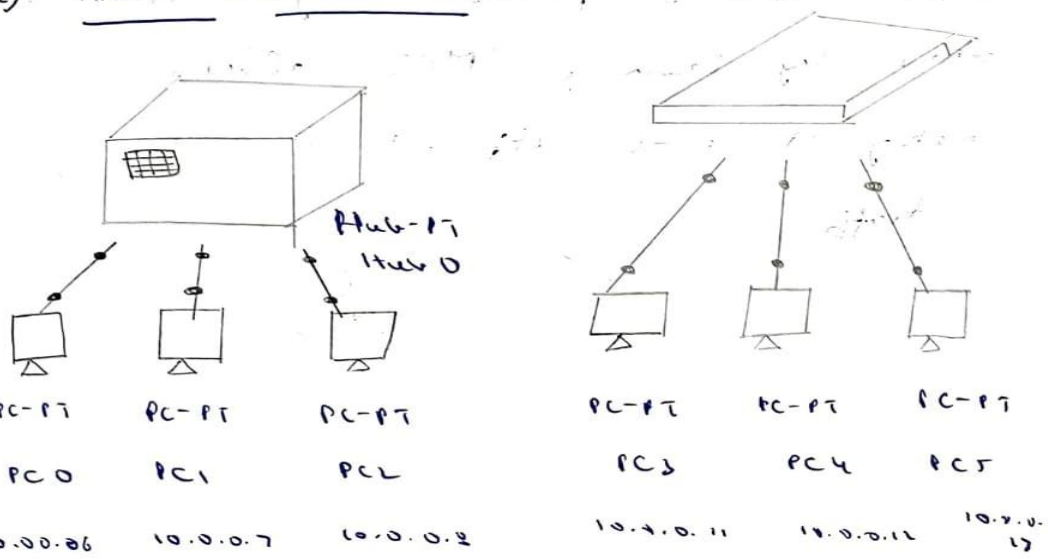
Program 1

Aim: Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate ping messages.

Topology , Procedure and Observation:



2) Hubs and Switch.



Aim: To create simple network consisting of 3 PCs connected to a central hub & another network with 3 PCs connected to a switch. This connection will help observe the behaviour of data transmission using hub & switch devices

Topology: 3 PCs are connected to a hub & switch using straight through cables.

Observation: Hubs broadcasts packets to all the devices which may cause unnecessary traffic.

Switch forwards packets only to appropriate device by learning MAC address, making it more efficient in moving traffic.

Screen Shots: