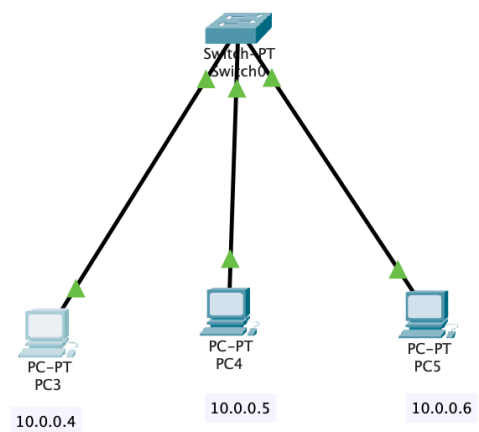
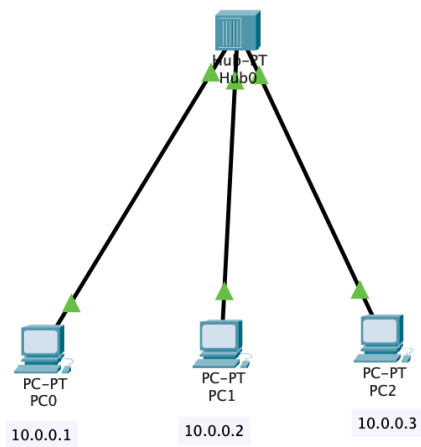
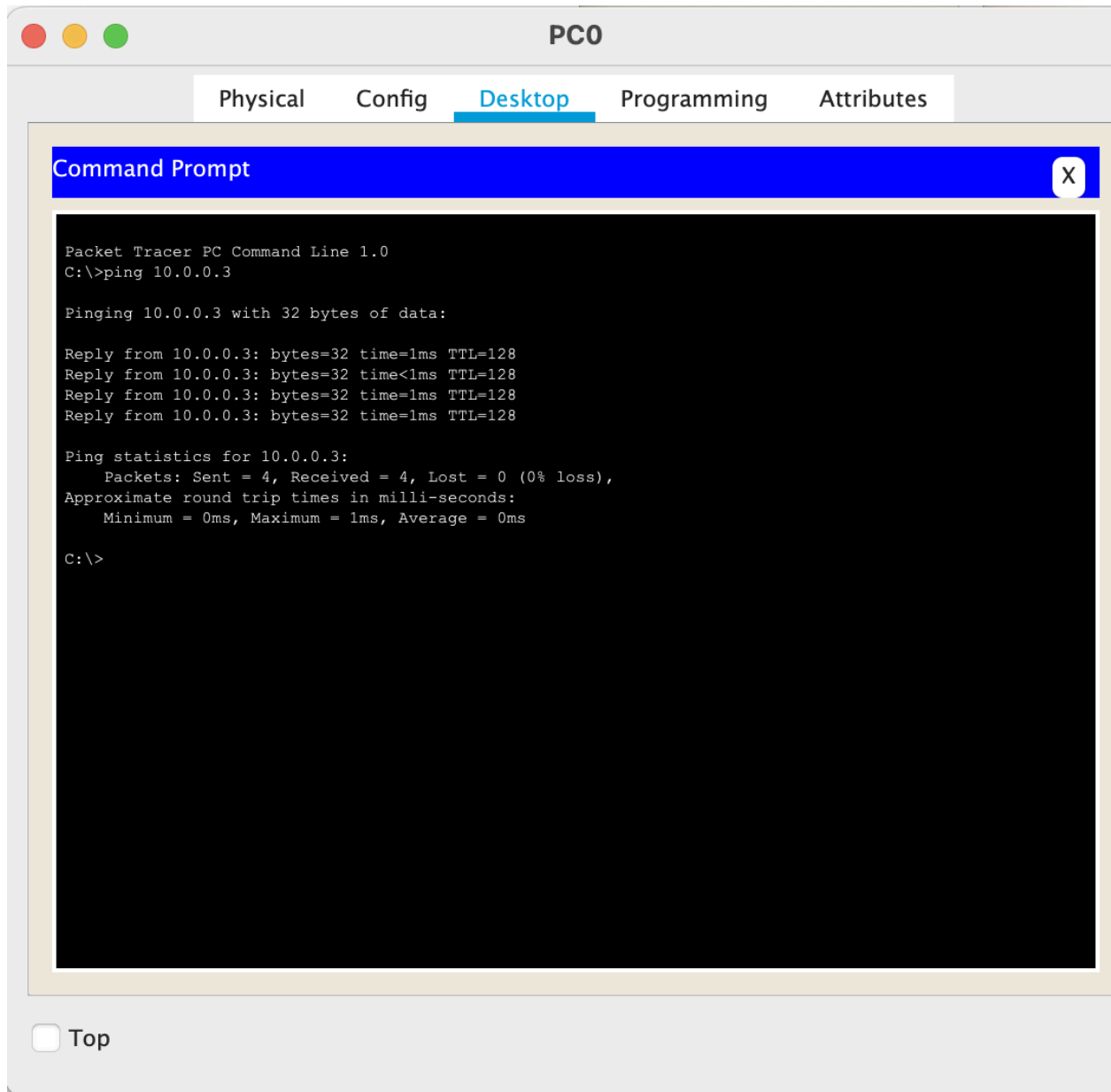


## Experiment 1:

Q)CREATE A TOPOLOGY AND STIMULATE SENDING A SIMPLE PDU FROM SOURCE TO DESTINATION USING HUBS AND SWITCHES

### Hubs and switches

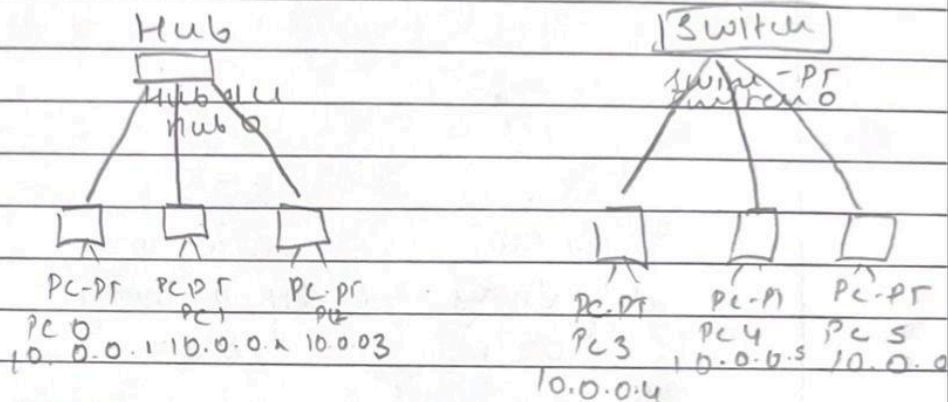




0) Create topology & simulate sending a single PDU from source to destination and seeing as connecting devices.

Topology: PC connected to server using crossover ethernet cable

Observation: Direct connection allows PC to communicate with server in small networks such as filing service request.



Aim: to create simple network consisting 3 PCs connected to hub & switch. This will help to observe behaviour the data.

Topology:

- 1) Hub Network: 3 PCs connected to hub
- 2) Switch: 3 PCs connected to switch using straight through ethernet cable.

Procedure Observation:

1) Add the hub broadcast packets to all devices.

2) The switch forwards packets only to the appropriate device.