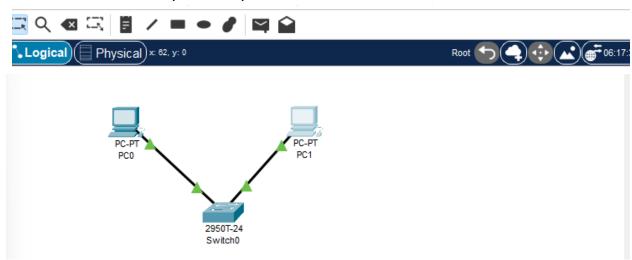
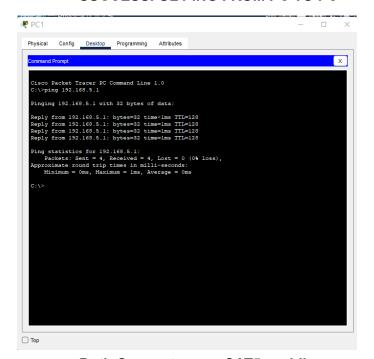
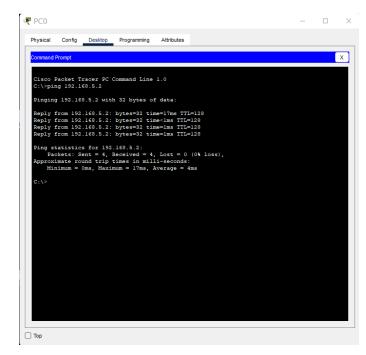
# **NETWORK TOPOLOGY (LOGICAL)**



#### SUCCESSFUL PING FROM PC TO PC





**Both Connectors on CAT5e cabling** 





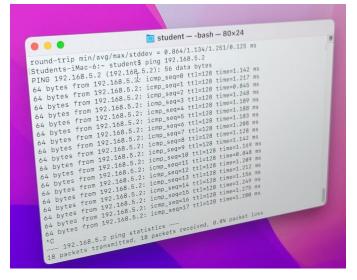
# Cable plugged in to equipment







#### SUCCESSFUL PING FROM PC TO PC



#### LAB 2 Questions:

#### 1) What are the Layers of the OSI Model?

The layers of the OSI Model is the Physical Layer, Data Link layer, Network Layer, Transport Layer, Session Layer, Presentation Later, and Application Layer.

#### 2) Name 3 types of physical layer networking connections?

One type of physical layer networking connection is a wired connection, which is any connection that involves cables in order to transmit data. For example, the lab we worked on today involves the cat5e cable for our two PC's to communicate. Another type of connection in the physical layer is the wireless connections. For example, laptops can connect to the internet through a router and a modem. A third type of wireless connection is the use of bluetooth.

#### 3) What type of pinout was used to create the Patch Cable for this exercise?

We used the RJ45 pinout to create the Patch Cable.

## 4) How do you create a crossover cable and why would you need one?

To create a cross over cable all you need is a CaT5e cable, a crimpin tool, and two RJ45 plugs. You would need one to connect two PCs together through a switch or router.

### 5) What is the Ping Command and how does the Ping Command verify connectivity?

The Ping Command sends out a signal to a specified address and requests the target to echo the signal back by sending a reply packet. This verifies connectivity since connectivity is required for the target address to reply back. If connectivity isn't available this command will let us know us well by showing a failed request.