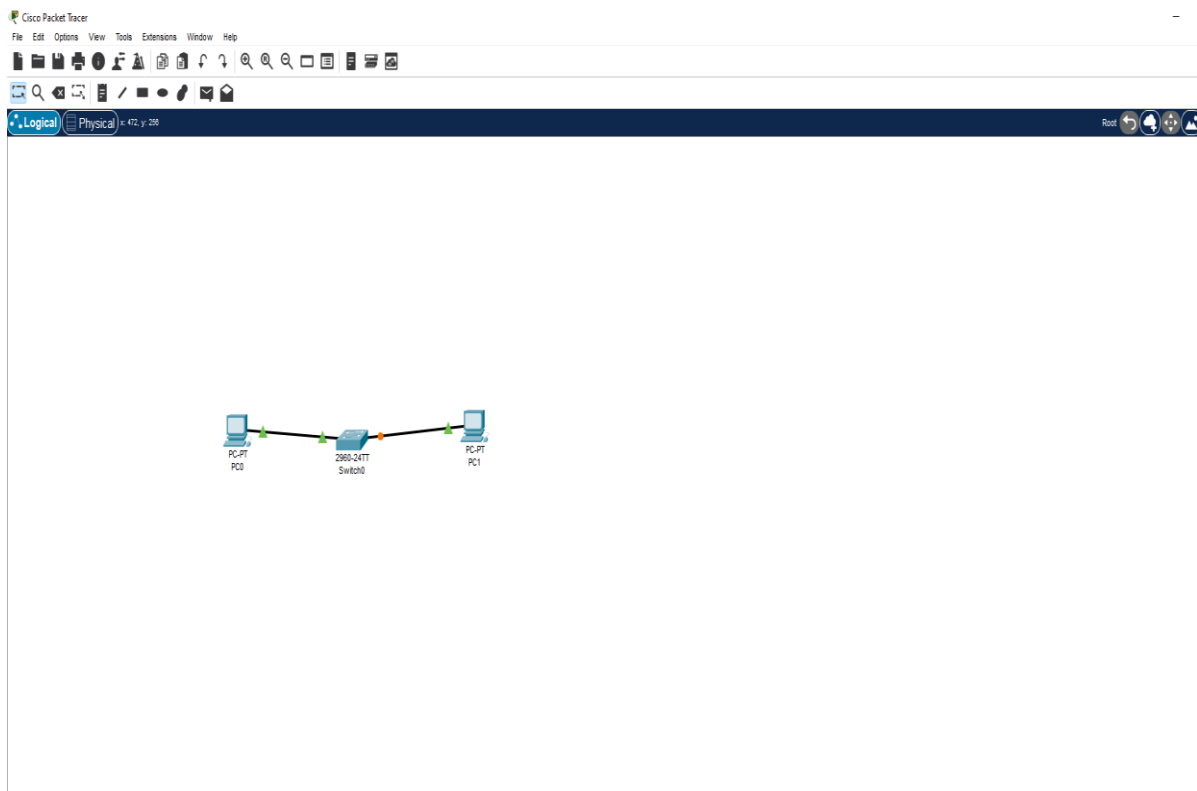


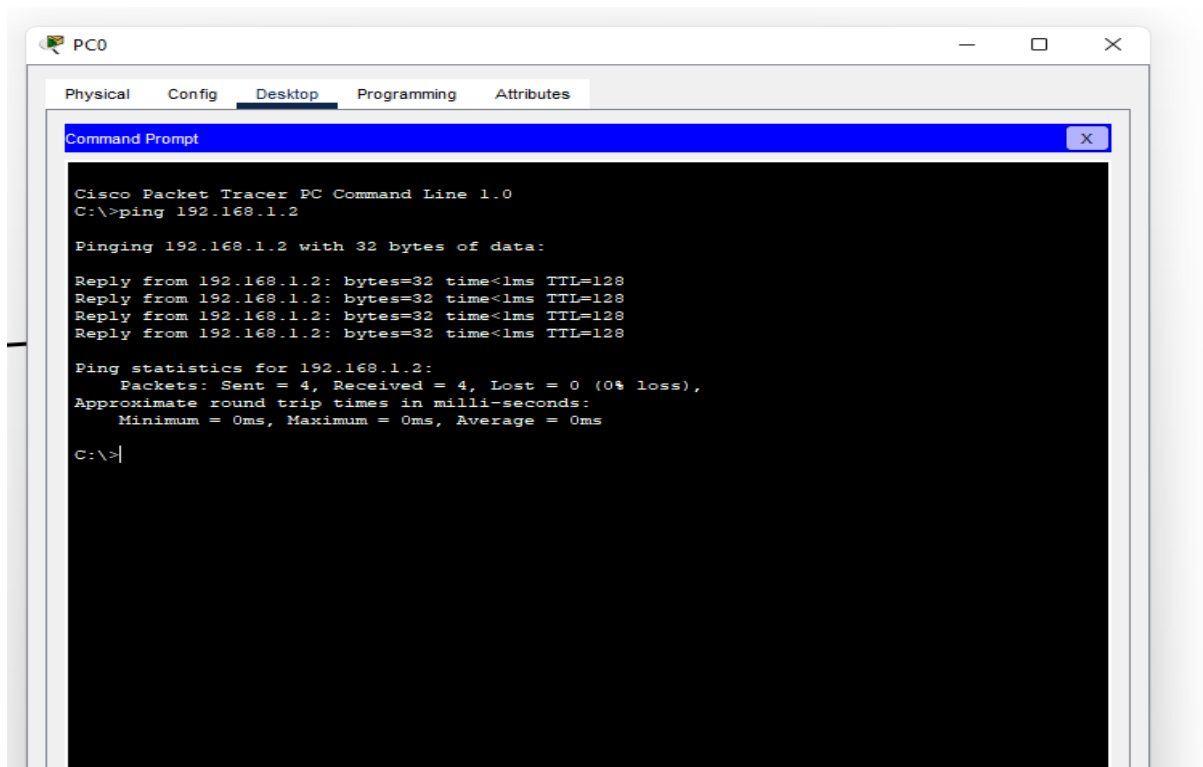
# LAB 1: PEER TO PEER NETWORKS (PART 2) Gayathri Jayamohan



1. Selecting pc0 and pc1 from end devices

The screenshot shows the configuration window for PC0. The 'Config' tab is selected, and the 'Desktop' sub-tab is active. The 'IP Configuration' section is expanded, showing the configuration for the 'FastEthernet0' interface. The 'Static' radio button is selected under 'IP Configuration'. The 'IPv4 Address' is set to '192.168.1.1', the 'Subnet Mask' is '255.255.255.0', the 'Default Gateway' is '0.0.0.0', and the 'DNS Server' is '0.0.0.0'. The 'IPv6 Configuration' section is also expanded, showing 'Static' selected, with 'IPv6 Address' set to 'FE80::260:47FF:FE35:7093', 'Link Local Address' set to 'FE80::260:47FF:FE35:7093', and 'Default Gateway' and 'DNS Server' fields empty. The '802.1X' section is expanded, showing 'Use 802.1X Security' unchecked, 'Authentication' set to 'MD5', and 'Username' and 'Password' fields empty. A 'Top' button is visible at the bottom left.

2. Assigning IP addresses to both pc



3. To justify pc0 is reachable to pc1 we are pinging pc1

So, the peer to peer network is done successfully

## PART 3

### 1. Coaxial Cables

**Coaxial cables** contain a centre conductor and a metal shield insulated by a plastic layer placed in between. The metal shield in coaxial cables blocks any elements or interferences from the outside.

Coaxial cables were used in the earlier days of computer networks.

### 2. Shielded Twisted Pair Cables

STP cables consist of coloured wires twisted around one another, forming pairs. Usually, shielded twisted pair cables are composed of four colourful pairs of wires wrapped with metal shields and a singular plastic sheath.

These ethernet cables, also known as STP cables, are widely used for business installations.

### 3. Unshielded Twisted Pair Cables

Unshielded twisted pairs are colourful wires wrapped around each other and then wrapped altogether in a plastic sheath.

Unshielded twisted pair cables, or UTP cables, are widely used in industrial computers and telecommunication companies

### 4. Fibre Optic Cables

**Fibre optic cables** are networking cables that contain either a glass or a plastic core, shielded by a cladding, a buffer and a jacket. These layers protect fibre optic cables from potential damage and from external interference.

This networking cable is the perfect choice for carrying data around long distances and the standard cable for connecting networks in different locations.