AIM: Setup and configure a LAN (Local area network) using a Switch and Ethornet cables in your los

What is a LAN?

A Jocal drea Network (IAN) refers to a network that connects devices within a limited area, such as effice building, school, (or, home. It enables users to share resoursce, including data, printers, and internet access.

How to set up a LAN

step - 1: Plan and Design an appropriate network topology taking into account network requirements and equiment location.

step 2: you can take 4 computers, a switch with 8, 16, or 24 ports which is sufficient for networks of these sizes, and 4 Ethernet cables.

step-3: Connect your computers to network switch was an Ethernet cable, which as simple as plugging one end of the Ethornet cable into your computer and other end into your network switch.

Step-4: Assign IP address to your PCs

- 1. Log on to the client computer as Architecture or as owner.
- 2. Click Network and Internet Connections,
- 3. Right click Local Area connection / Ethernet >
  Go to properties -> Select Internet Protocal
  (1CP/1Pvq) -> click properties -> select ip address
  aprion and assign ipaddress.

Step 5: Configure a network switch:

- 1. Connect your computer to the suiteh.
- 2 Log in to the web interface.
- 2. configure basic settings
- 4. Assign IP Address as

step - b: Check the connectivity between switch and other machine by using pung command in the command prompt of the device.

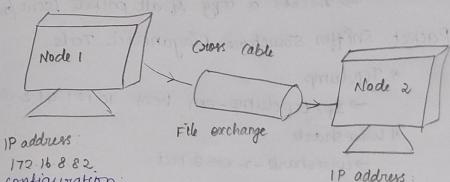
step-7: Select a folder, -> go to properties -> click sharing tag -> share ut with everyone on the same LAN.

step-8: try to access the shared folder from others computers of the network.

## Observation:

Draw a diagram of LAN in the configuration observation book. that you have simplemented in your less consite the ip configuration of each 2 energy device write the outcome and challege baced cohile configuring the LAN.

Dlagram of the LAN:



IP configuration:

Node -1:

IPV4 Address: 172.16.8.82

Node - 2:

2PV4 address: 172.16.8.83

austome:

The file that sent that through [click Run: [//172.16 8 8] ) users//REC/LDE8ktop] is sent successfully.

172.16.8 83

68/20

Thus, the set up LAN is using switch and Ethernet cables is successfully connected and sent files.