AIM :

To setup and configure a LAN using a switch and ethernet cable in your Lab.

LAN refers to a network that connect devices within a limited access such as office building, school or home.

how to setup LAN:

(1) Plan and design an appropriate network topology.

(2) You can take 4 computers, a switch with 8, 16, 24 ports which is sufficient for network.

(3) Connect your computers to network switch via an ethernet.

(4) Assign IP address to your PC.

(a). Log on to the client computer as administrator as owner.

(b) click network

(c) Right click LAN / ethernet

Go properties ⟶ Select internet Protocol

⟶ Click property.

Control Panel > Network & Internet
Networking | sharing
IP version 4 (TCP/IPV4) Properties.

○ Obtain an IP address

◉ Use the following IP address

IP address :   `10.1.1.1`

Subnet mask :   `255.0.0.0`

Default gateway: `[ . . . ]`

◉ Use the following DNS Server address:

Preferred DNS :   `[ . . . ]`

Alternate DNS   `[ . . . ]`   `[Advanced]`

Similary assign IP address to all

the PCs connected to switch.

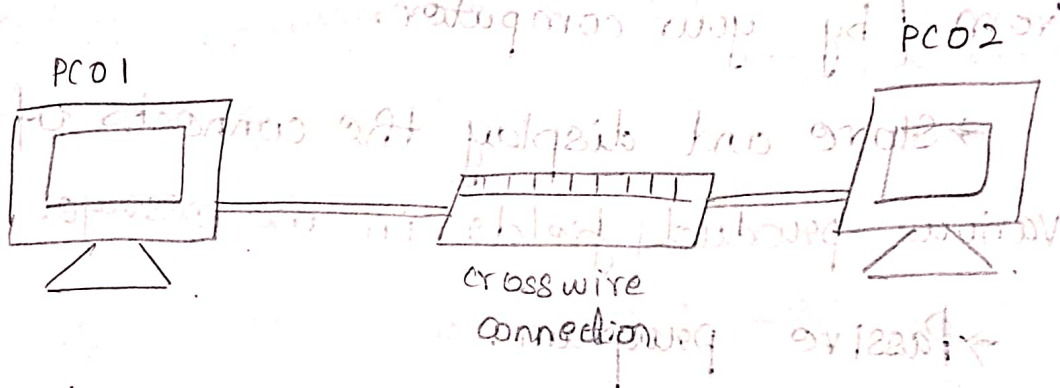(5) Configure a network switch.

(a) Connect your comp. to the switch

To access the switch web interface.

(b) log in to the web interface.

open a web browser.

(c) Configure basic setting:

(d) Assign IP address as 10.1.1.5.

Student Observation.

PC01   PC02

cross wire
connection

Result: To setup and configure a LAN using switch and ethernet cable.