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# COMPUTER NETWORK LAB

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Lab 3



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### **Task 1: What is Ethernet cable? What type Ethernet cable is most commonly used in LAN network?**

- **Ethernet cable:** A wire that connects computers, switches, and routers to form a network and transfer data.
- **Most commonly used type:** **Cat5e** or **Cat6 cables** are mostly used in LAN networks.
- **Why use it:** Because they are fast, reliable, and give stable internet/data transfer compared to wireless.

### **Task 2: What is a LAN (local area network)? When and why to use LAN cable to send files from one computer to another?**

- **LAN:** A Local Area Network is a network that connects computers and devices within a small area like a home, school, or office.
- **When to use LAN cable:**
  - When two or more computers are close to each other.
  - When you want **fast and secure file sharing**.
- **Why:** Because LAN cable provides higher speed, stability, and security compared to wireless.

### **Task 3: How does LAN work? What is meant by 127.0.0.1 and localhost?**

- **How LAN works:**
  - All computers in LAN are connected with cables or WiFi to a switch/router.
  - They communicate using IP addresses to send and receive data.
- **127.0.0.1 and localhost:**
  - Both refer to your **own computer**.
  - It is a special IP address used for testing network programs on your computer itself.

### **Task 4: How two computers can share files through disk sharing.**

- Enable **File and Disk Sharing** option in both computers.
- Connect them in the **same LAN** (with cable or Wi-Fi).
- Share a folder or disk → give permission (read/write).
- The other computer can open it from **Network options**.  
This way both computers can easily share files.