

## Experiment No. 5

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**Branch: Electronics and Communication**

**Section/Group: A**

**Semester: 6th**

**Date of Performance: 03/04/2023**

**Subject Name: Computer Networks LAB**

**Subject Code: 20ECP-374**

**1. Aim/Overview of the practical:** To implement File sharing on a Local Area Network.

**2. Apparatus/Tool Used:** LAN

### **3. Theory:**

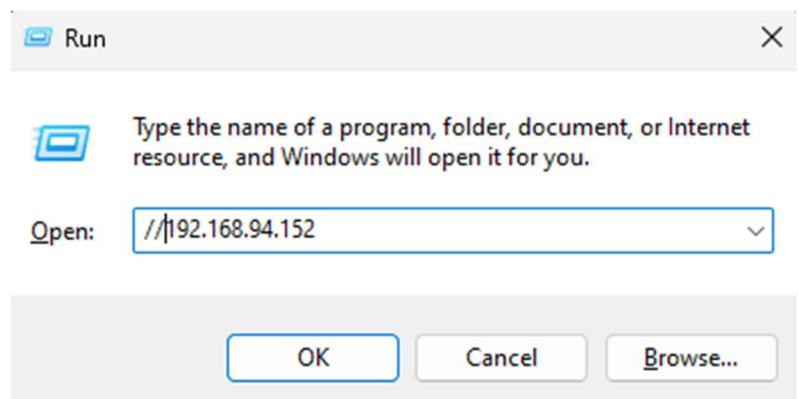
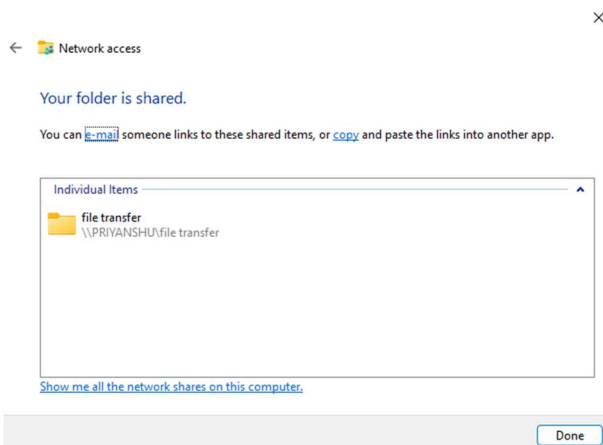
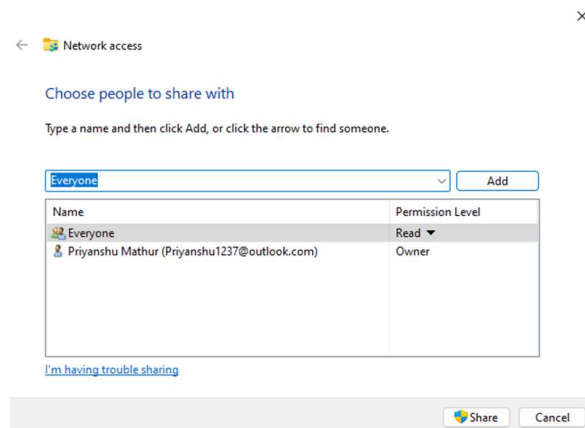
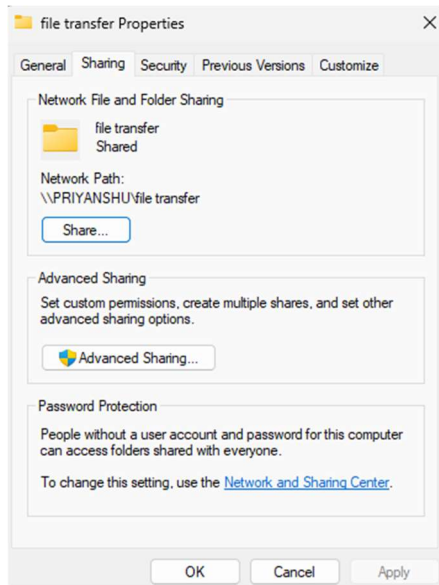
Implementing file sharing on a Local Area Network (LAN) can greatly improve collaboration and productivity among users on the network. The most common method to implement file sharing on a LAN is through peer-to-peer (P2P) file sharing, where each computer on the network can act as both a client and a server.

To set up P2P file sharing, users must first ensure that their computers are connected to the same LAN and that they have the necessary permissions to share files. Users can then create shared folders on their computers and grant access to other users on the network. Alternatively, users can use third-party software or built-in network sharing features in operating systems such as Windows or macOS to facilitate file sharing.

Another method of implementing file sharing on a LAN is through a central file server. This involves setting up a dedicated computer or network-attached storage (NAS) device to act as a central repository for files that users can access and share. Users can connect to the file server and access files through a network drive or web interface.

Whichever method is chosen, it is important to ensure that the network is secure and that users have appropriate permissions to access and share files. This can be achieved through the use of firewalls, access control lists, and other security measures.

#### 4. Different file sharing Methodology:



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## 5. Results and Summary:



## 6. Learning Outcomes (What I have Learnt) :

- Understand the concept and benefits of file sharing on a Local Area Network (LAN).
- Understand the different methods of file sharing on a LAN, including peer-to-peer (P2P) file sharing and centralized file servers.
- Know the steps involved in implementing file sharing on a LAN, including setting up permissions, creating shared folders, and implementing security measures to ensure network security and proper file access permissions.



**Evaluation Grid (To be filled by Faculty):**

<b>Sr. No.</b>	<b>Parameters</b>	<b>Marks Obtained</b>	<b>Maximum Marks</b>
1.	Worksheet completion including writing learning objectives/Outcomes. (To submit at the end of the day)		
2.	Viva		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		
	<b>Signature of Faculty (with Date):</b>	<b>Total Marks Obtained:</b>	