Faculty of Computing



**[Computer Communications & Network]**

**Lab No 3 Tasks**

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**-35483**

**-BSSE 7**

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

**Ans:** Ethernet cables are used to connect devices in a local area network (LAN) and facilitate communication between them. They transmit data packets using electrical signals.The most commonly used Ethernet cable for LAN networks today is **Category 6 (Cat 6)**.

Cat 6 cables offer good performance for typical network tasks such as web browsing, streaming, and file sharing supporting speeds up to 1 Gbps (Gigabit Ethernet) over a distance of up to 100 meters (328 feet).

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

**Ans:** A LAN (local area network) is a network that connects computers and devices within a limited area, such as a home, office, or school, allowing them to share resources and communicate. For example, in an office, a LAN enables employees to access shared files and printers. Using a LAN cable to send files between computers is beneficial for faster and more reliable transfers compared to wireless methods, especially in environments with high data demands or where network stability is crucial.

**Task 3: How Does LAN Work? What is meant by 127.0.0.1 and localhost?**

**Ans:** A LAN works by connecting devices through network cables or wireless signals, enabling them to communicate and share resources using protocols like Ethernet. The IP address **127.0.0.1** and the hostname **localhost** both refer to the local loopback address, allowing a computer to communicate with itself for testing and troubleshooting network applications.

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









