Faculty of Computing



**[Computer Communications & Network]**

**Lab No 3 Tasks**

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**Task 1:** What is Ethernet cable? What type Ethernet cable is most commonly used in LAN network? 03

**Answer:**

Ethernet cable is a network cable that is used to connect devices such as pc routers etc., in a local area network. It allows devices to share resources with each other.

**Different type of cable: Cat5e and Cat6**

**Cat5e** is most commonly used in LAN. It provides speed up to 1 gigabit for small area like home or office.

**Cat6** provide 10 gigabit speeds. It is suitable for high data transfer.

**Task 2:** What is a LAN (local area network)? When and why to use LAN cable to sendfiles from one computer to another? 04

**Answer:**

A local area network (LAN) is a collection of devices connected together in one physical location, such as a building, office, or home.

* **We use LAN to transfer files between computer when we don’t have a wireless network.**
* **LAN provide stable connection there is low chance of single drop.**
* If you have several devices that need to be connected, such as computers, printers, and network storage, a LAN can help them all communicate efficiently.

**Task 3: How Does LAN Work? What is meant by 127.0.0.1 and localhost? 03**

**Answer:**

**Connecting Devices**: LAN like a big room where computers, printers, and other devices are connected by cables or Wi-Fi.

**Communication**: These devices can talk to each other and share things using protocol like files and printers because they’re all connected.

**Sharing**: You can use a printer from any computer in the room or send files to other computers easily.

**`127.0.0.1 is a IP address of our own computer and Localhost is basically a name of that address to call it.**

**It is used to test application without having the internet.**

**Task 4: How two computers can share files through disk sharing. 5**







