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**

Ethernet cables are the standard cables that connect devices on a local area network (LAN). They are made of twisted pairs of copper wire and come in various lengths and colors.

The most common types of Ethernet cable are Category 3, 5e, 6, and 6a.

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

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

**When to use:**

We can use LAN when we want to have connect devices in a single building i.e. home, school, offices etc.

**Why to use LAN for file transferring:**

* We can use this for secure transfer it is difficult to penetrate the network as it is wired.
* We can use this for fast transfer of data as compared to the wireless.

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

A local area network (LAN) is a group of computers and associated devices that share a common communications line or wireless link and typically share the resources of a single processor or server within a small geographic area (for example, within an office building). Usually, the server has applications and data storage that are shared in common by multiple computer users. A local area network may serve as few as two or three users (for example, in a home network) or as many as thousands of users.

**127.0.0.1:**

Localhost is the default name of the computer you are working on. The term is a pseudo name for 127.0.0.1, the IP address of the local computer. This IP Address allows the machine to connect to and communicate with itself.

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









