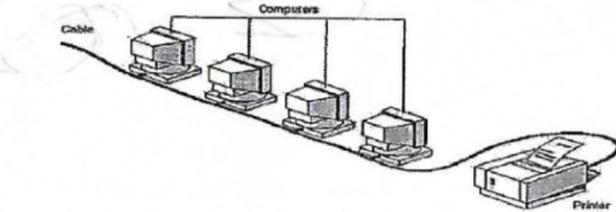Online Resources:

    i.   Define Data Networking.

Data networking

A computer that can process and print documents is known as a **stand-alone computer**

If a stand-alone computer were to be connected to other computers to share data and send documents to the other printers. This connecting together of computers and other devices is called a **network**, and the concept of connected computers sharing resources is called **networking**

    ii.   Name a type of Data networks.
    iii.   State the purpose of data networking.
    iv.   Describe the purpose of data networking.
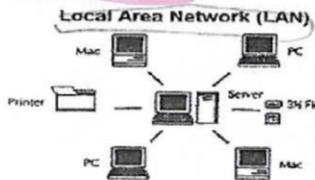   v.   Outline the basic features of each type of data networks.

Why Use a Computer Network? (The purpose of data networking)

Computers that are part of a network can **share**:

> Documents (memos, spreadsheets, invoices, and so on), E-mail messages, Application or software, Printers, Storage devices

The capabilities of networks are constantly expanding as new ways are found to share and communicate by means of computers. The **Internet** is a good example of a data network allowing users to share information using Facebook or Twitters.
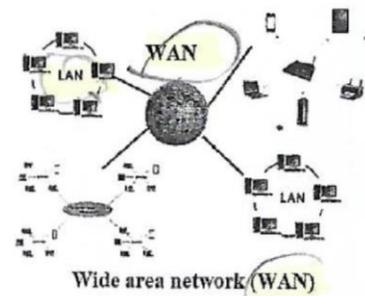
Types of data networks

There are two major types of data networks:

1. **Local Area Networks** (LANs) – A network that covers buildings or a set of closely related buildings.
    ✓ Provide connectivity at a Local Level – within an office, within a building, within a small campus.
    ✓ Limited coverage distance. (depend on technologies)

2. **Wide Area Networks** (WANs) – A network that can cover cities, countries, and continents. The Internet is an example of a WAN.
    ✓ Multiple computer are connected together
    ✓ A WAN usually interconnects multiple LAN's
    ✓ Communication links between computers are provided by telephone networks, public data networks.

    vi.   Define Internet.
    vii.   Define Website.
    viii.   Define world-wide-web (www).

Internet

The Internet is a global network of networks that connects computer system across the world.

Website

A collection of web pages. Is a central location of web pages that are related and accessed by visiting the home page of the website using a browser. For example website address https://www.facebook.com, https://www.tongacollege.org.

World-wide-web (www)

The World Wide Web, commonly known as the Web, is an information system where documents and other web resources are identified by Uniform Resources Locators (URL), which may interlinked by hypertext, and are accessible over the Internet.

    ix.   Name a type of application for accessing the www.
    x.   Name a common web browser.

People and organizations connect into the Internet so they can access its massive store of shared information.
To access most of the information on the Internet or the World Wide Web, you need to use an internet application known as a web browser.
Most common web browsers.
    ➤ Internet Explorer, Firefox, Safari, Opera, Chrome

    xvi. Define Internet search engine.
Internet search engine is a software system that is designed to carry web search (internet search)

    xvii. Define e-mail.
    xxi. State the purpose of e-mail.
    xxii. Describe the purpose of e-mail.

Using electronic mail (email)

Electronic mail (also known as email or e-mail) is one of the most commonly used services on the Internet, allowing people to send messages to one or more recipients. Is a digital message sent electronically from one computer to one or more other computers.

Email are flexible and can be used for:

    ✓ Giving Instructions, Communication Rules and Procedures, Serving as Documentation, Providing a Status update, Providing Confirmation, Making an Inquiry.

Email is a good way to get your message across when:

- You need to get in touch with a person who is hard to reach via telephone, does not come to campus regularly, or is not located in the same part of the country or world
- You need to send someone an electronic file, such as a document for a course, a spreadsheet full of data, or a rough draft of your paper.
- You need to distribute information to a large number of people quickly (for example, a memo that needs to be sent to the entire office staff).
- You need a written record of the communication. Saving important emails can be helpful if you need to refer back to what someone said in an earlier message, provide some kind of proof (for example, proof that you have paid for a service or product), or review the content of an important meeting or memo.

Activity 0.8 (page 42)

Data network

1. Provide TWO main use of a data network.

   i.

   ii.

2. Describe the following type of data network.

   i.   Local Area Network

   ii.   Wide Area Network

3. Fill the table with the correct type of network.

Example	LAN or WAN
The Internet	
School computer Lab network	
TCC Data networks	
Ministry of Justice building network	
Police headquarter links with their training centre network	