Computer Fundamental

Lecture 5
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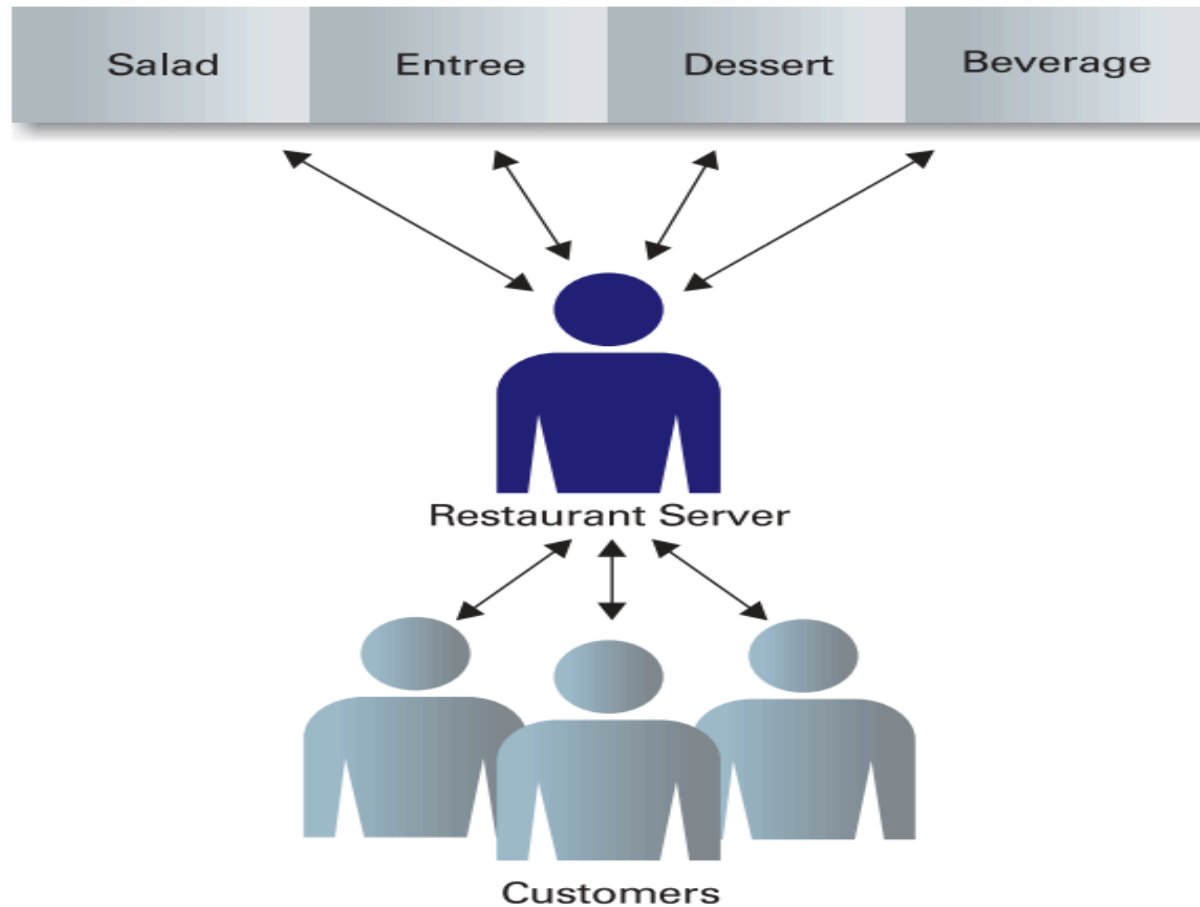Varendra University

Introduction to Computer Networking (Part - 1)

Network

A network consists of two or more entities, or objects, sharing resources and information.

Networking Examples - 1

Networking Examples - 2

- **The more people in your network, the better your chances of finding that perfect job.**

Computer Network

A computer network is a system in which multiple computers are connected to each other to share information and resources.
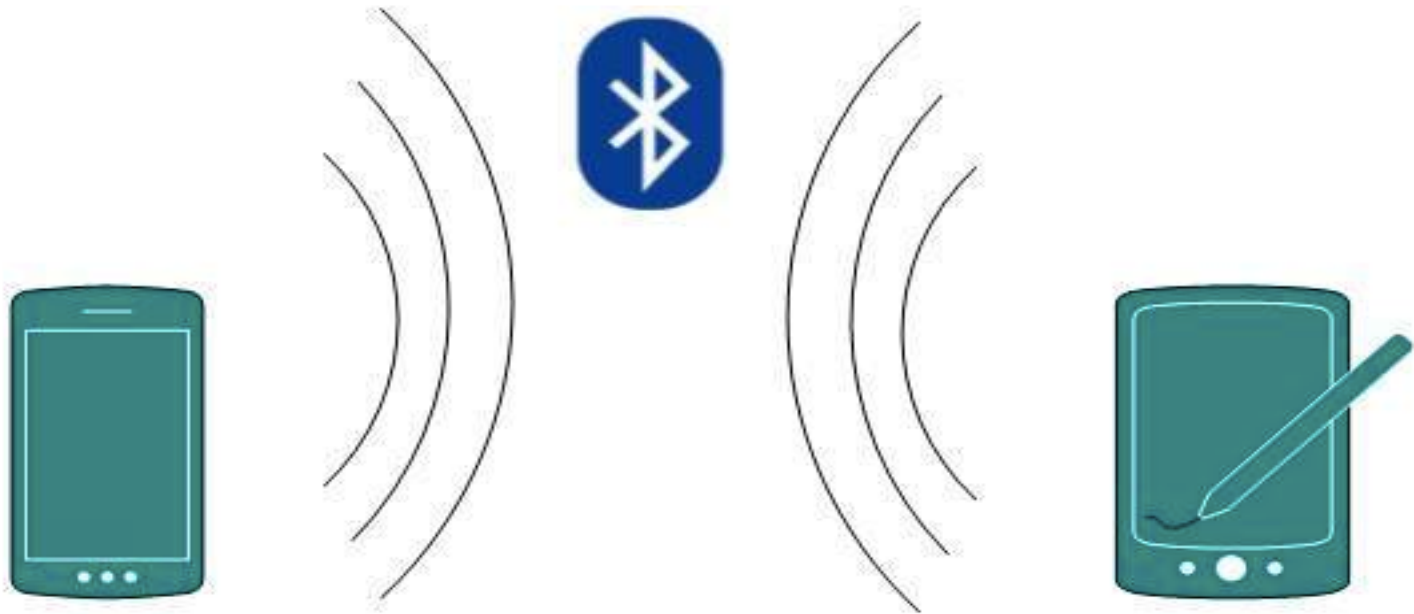
Computer Network Types

Networks are distinguished based on their geographical span.

- ✓ Personal Area Network (PAN)
- ✓ Local Area Network (LAN)
- ✓ Metropolitan Area Network (MAN)
- ✓ Wide Area Network (WAN)
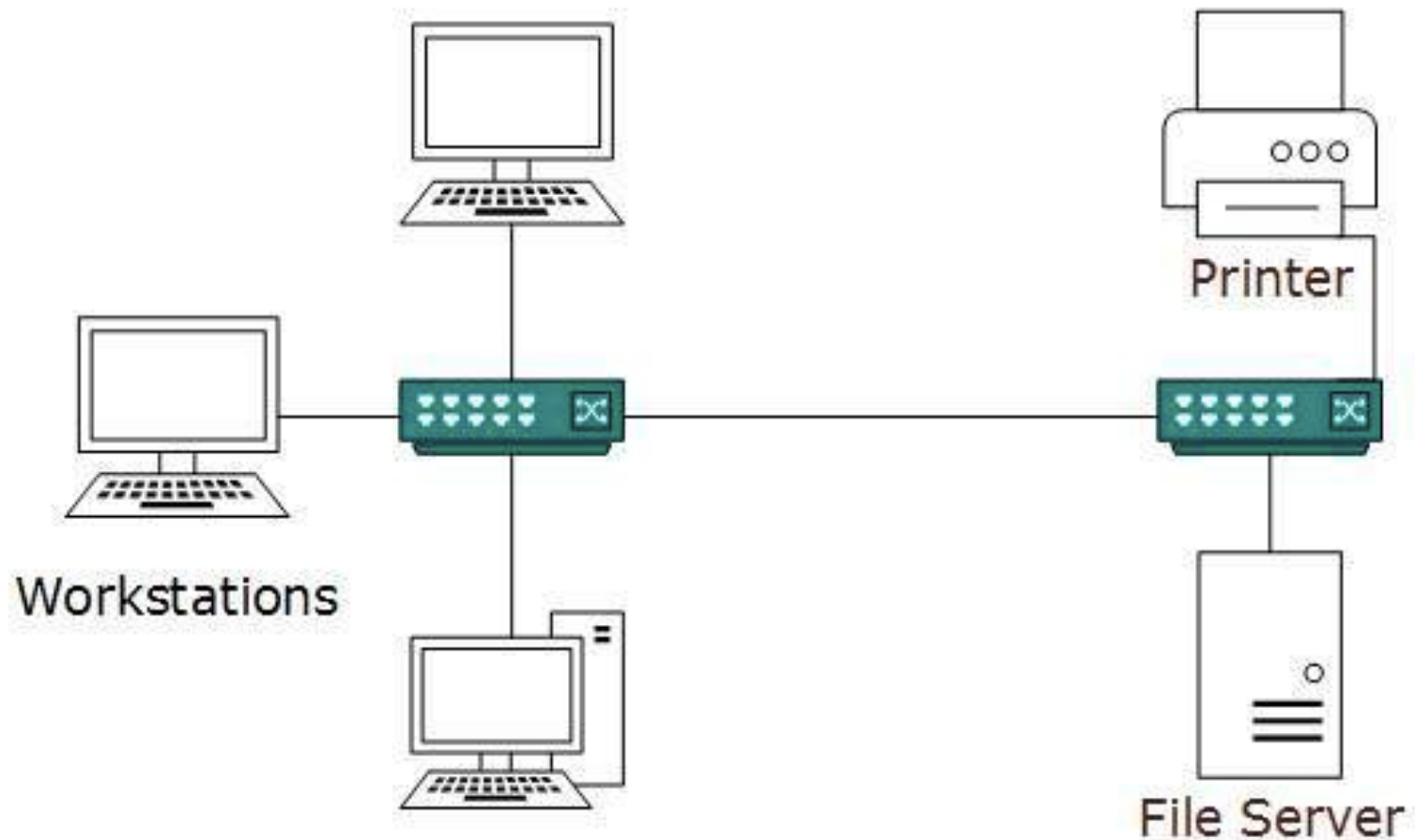
Personal Area Network

A Personal Area Network (PAN) is smallest network which is very personal to a user. PAN has connectivity range up to 10 meters.

Local Area Network - 1

- A computer network spanned inside a building and operated under single administrative system is generally termed as Local Area Network (LAN).

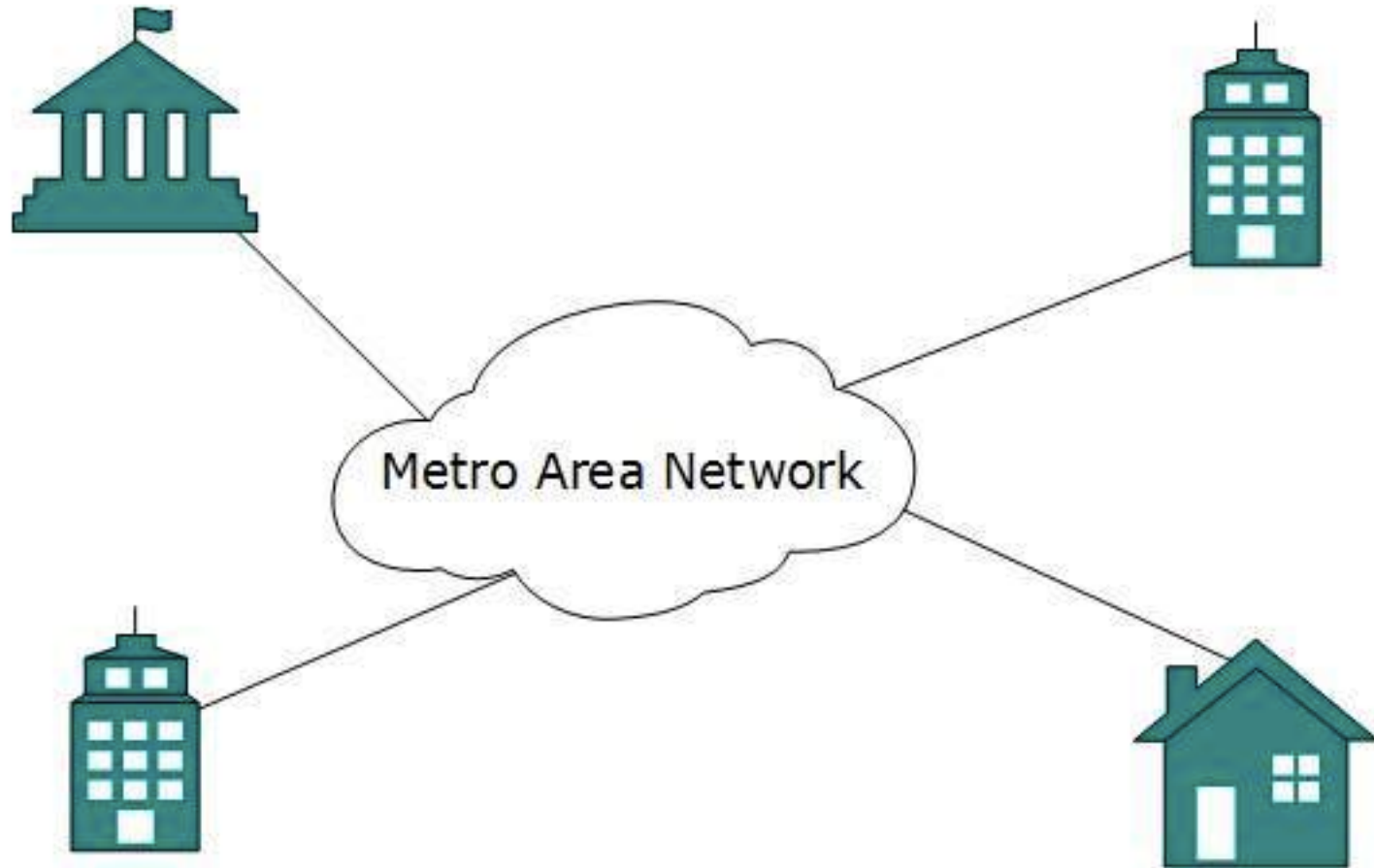- LAN provides a useful way of sharing the resources between end users.

Local Area Network - 2

Metropolitan Area Network - 1

- The Metropolitan Area Network (MAN) generally expands throughout a city such as cable TV network.

- Backbone of MAN is high-capacity and high-speed fiber optics.

- MAN works in between Local Area Network and Wide Area Network.

Metropolitan Area Network - 2

Wide Area Network - 1

- Wide Area Network (WAN) covers a wide area which may span across provinces and even a whole country.

- Generally, telecommunication networks are Wide Area Network.

- Since they are equipped with very high speed backbone, WANs use very expensive network equipment.

Wide Area Network - 2

Wide Area Network