

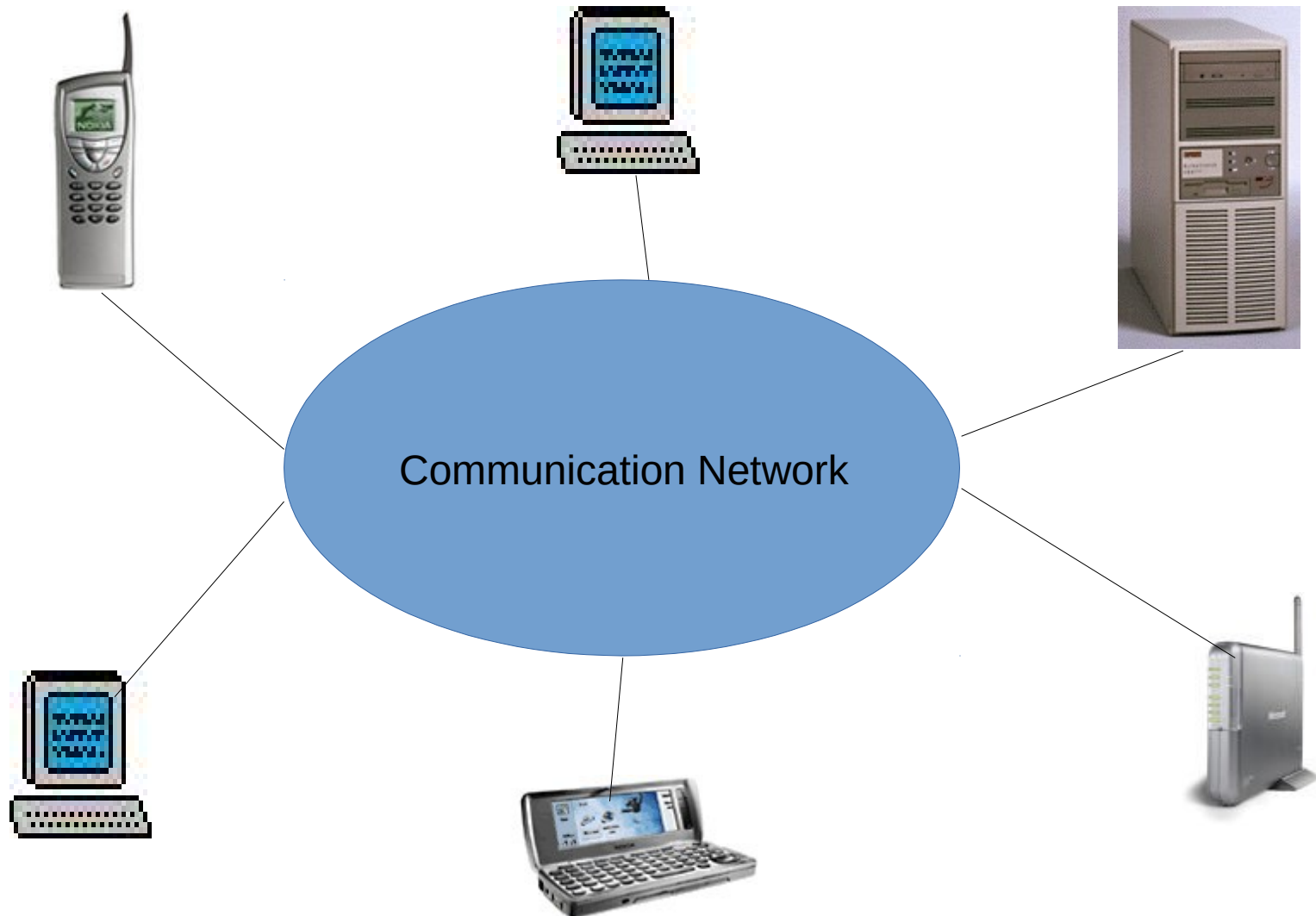
¹ Computer Networks Terminology

- ¹ Manas Ranjan Lenka
- ▯ School of Computer Engineering,
 - ▯ KIIT University

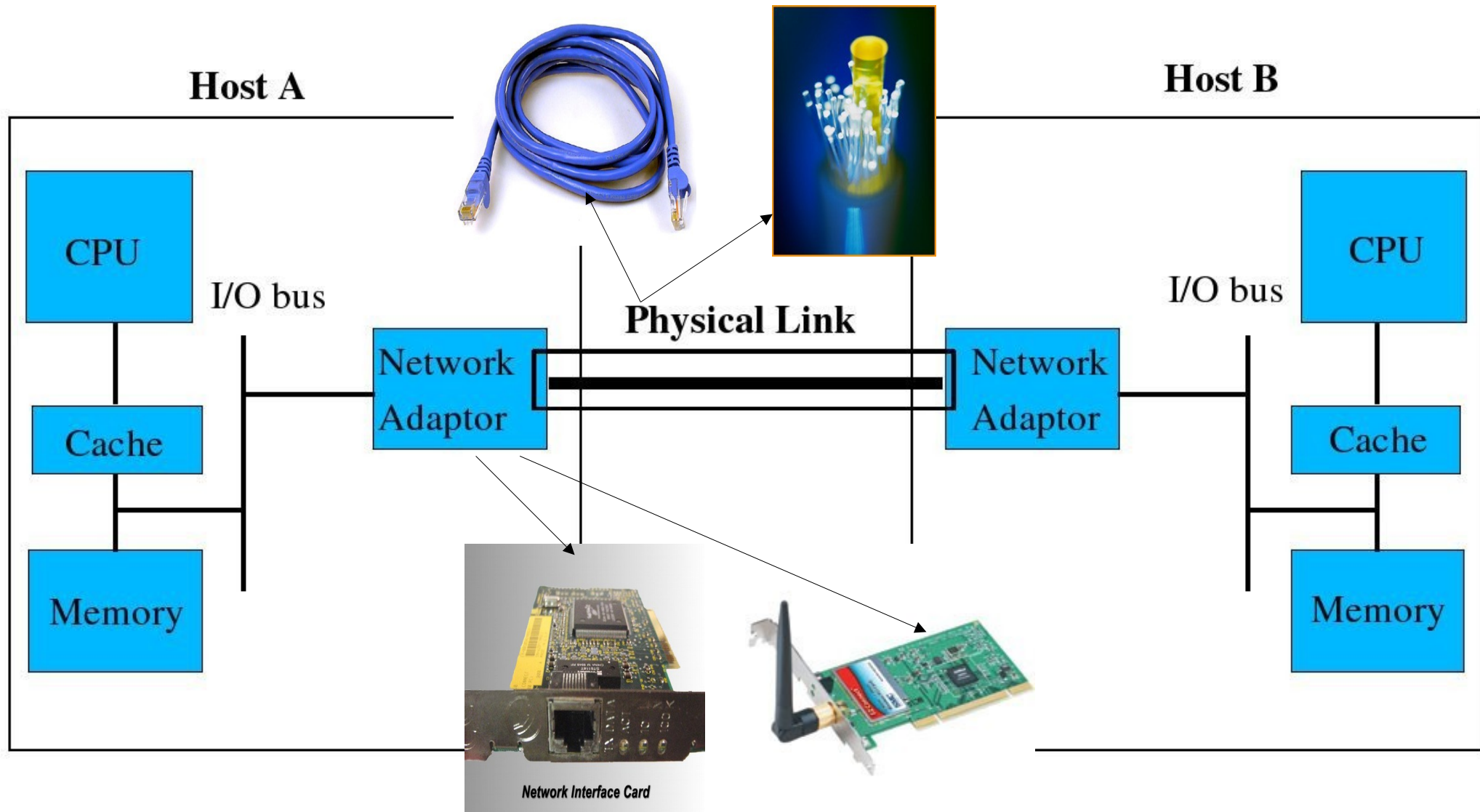
Requirements for Communication

Communication: The exchange of thoughts, messages, or information, as by speech, signals, writing, or behavior.

High Level View of Computer Communication

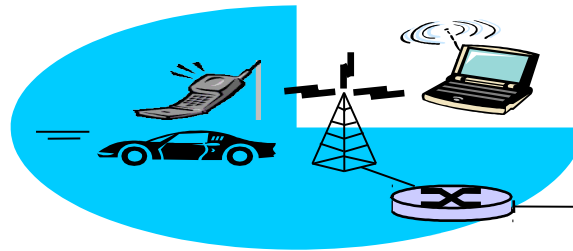


Two computers talk to each other

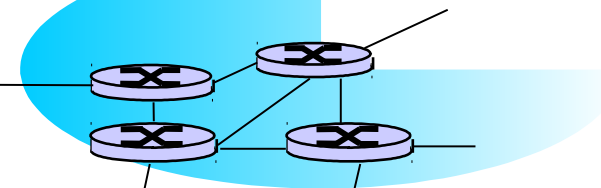


The Network Diagram

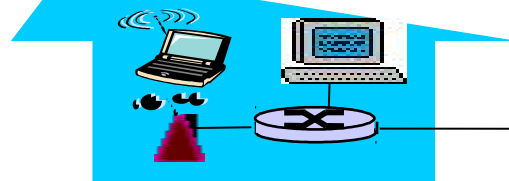
Mobile network



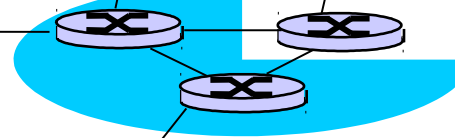
Global ISP



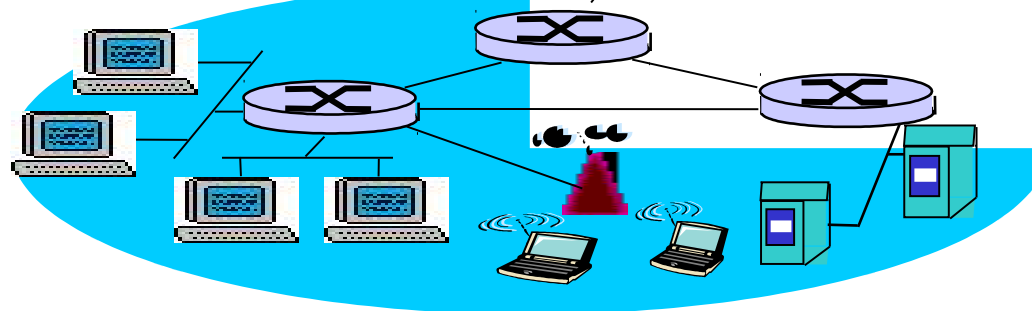
Home network



Regional ISP



Institutional network



Requirement for Computer Communication

Hardware :

▮ Communication endpoints

- ▮ Servers, Desktops, Laptops, Smart-phones etc.

▮ Network Interface card

- ▮ Hardware that connect a device to a network

▮ Communication Links

- ▮ Physical media that interconnects computing devices
E.g. Co-axial cable, fiber-optics, Twister-pair, Air (Wireless)

▮ Switches / Routers

- ▮ Interconnect Networks (which are made up of hosts and links)

Software :

▮ Protocol

- ▮ Defines format and rules for exchange of messages
 - ▮ – What to send: Format
 - ▮ – When to send & How to act : Rules

What's a protocol?

a human protocol and a computer network protocol:

