

# Security Issues

# Security in Hardware

Security Issues in Hardware: Computer is used as an active tool to conduct the attack on another. Computer itself a identity to attack. It may be Direct (when hacker use personal computer) or Indirect (use network computer) There is a need of security and is also feasible to access the information for its application. Information Security should balance protection and availability.

# Data Storage and Downloadable Devices.

Physical components or material where data is stored are called Storage media.

## Storage Devices

- a) Magnetic storage: CD, Hard disk
- b) Optical Storage: DVD ROM CDR

# Downloadable Device

The Device which you can download

- a) Audio
- b) Video
- c) Lectures
- d) Online access of application

# CCTV(Closed Circuit TV)

- ▶ It is Monitoring Device
- ▶ It has Cameras, Transmitter, Receivers , recording System and a monitor.
- ▶ The camera captures the data and transmits to a receivers which allows the data to be displayed on a monitor .
- ▶ The data are recorded so that it can be reviewed later .
- ▶ Intrusion Detection devices are used to sense changes that take place in an environment.
- ▶ IDS are used to detect unauthorized entries and to alert a responsible entity to repond

# Access Control

- ▶ Protecting what needs to be protected in a given technology
- ▶ Access control is the heart of Information security

# Access Control



- ▶ The basic concepts are Identification, Authentication, PIN Value, Biometric, one time password, password, Authorization, and Accountability.
- ▶ It has web server and directory.
- ▶ Access is integrated with web browser, policy manager, policy data bases and services.

# Types of Access Controls

## **1. Administrative control:**

Define roles, responsibilities, policies, functions to manage the control environment.

## **2. Technical controls**

Use Hardware and s/w to implement access control

## **3. Physical Control**

Ensure safety and security of the physical environment