- Computer
- Internet
- WWW

- Easier
- Cheaper
- Faster

- 1. Collecting information
- 2. Searching
- 3. Analyzing
- 4. Storing
- 5. Accessing
- 6. Distributing

- But when the information is about our
- Activities
- Opinions
- Personal characteristics
- The same capabilities threaten our privacy.

- Thousands of databases both government and private containing personal information about us
- Conversations disappeared when people finished speaking
- Personal communications were normally read by only the sender and recipient

- Now a days: We
- Communicate by e-mail with each other
- Electronic group discussions

All these activities/works are recorded and can be copied, stored, distributed and read by others even years later

- We browse:
- Library Anonymity

- Bookstor -s
- But on the web:
- A record can be kept of ever page we visit

Books, magazines, journals and newspapers

#### Invisible Information Gathering

- Invisible information gathering describes collection of personal information about someone without the person's knowledge
- Ethical issue is:
- If someone is not aware that the information is being collected or
- How it will be used, he or she has no opportunity to consent or withhold for its collection of use

#### Invisible Information Gathering

- Examples:
- Satellite surveillance
- Automatic identification of a person's telephone number when he or she calls an 800 or 900 number
- Webs Information

#### Invisible Information Gathering

- Internet Service Provider (ISP):
- Manages the collection between a user and the sites he or she is visiting
- Thus ISP knows every site we visit Examples:
- Yahoo collects: Four terabytes of log data daily: For
  - 1) Customer needs, 2) Allocating resources
  - 3) Improving services, 3) Advertisement

## Invisible information Gathering

- ▶ ISP and Web sites logs are used:
- Tracking and
- Collecting evidence about criminals
- They include:
- Details of our online activities
- Where did we work? (In which machine?)
- What did we do?
- How long we stayed at a particular page?

#### Cookies

- Cookies are files a Web site stores on each visitor's computer
- It includes information about visitor's activities
- It has many benefits like:
- A web site content information about "shopping cart" of a visitor in a cookie
- On subsequent visit, the site retrieves information from the cookie

#### Cookies

- A site avoids having to ask a user to type the same information each time he or she visits.
- Another example:
- A web site named "you tube". This type of web site contains information about a persons choice in a cookie.
- For as subsequent visit this site recommend visitors according to their choice

- The ease of:
- Copying
- Storing
- Collecting
- Distributing
- Analyzing

Use of Computers and Computer networks

Increase of secondary use of personal information

- It is difficult for individuals to control their personal information if it is collected by one:
- Business
- Organization

- Sharing with otherSold to others

- Government agencies: For examples:
- Sales of Customer information:
- To marketers
- To other businesses
- Use of information in various databases to deny someone a job
- Use of numerous databases by the *Internet Revenue Service* to find people with high incomes

- Use of a supermarket's customer database to show alcohol purchases by a man
- Computer matching means combining and comparing information from different databases by using a personal social security number to match records

- Businesses use the technique to form customers' dossiers
- Government uses database for detecting fraud and enforcing law
- Computer profiling means using data in computer files to determine characteristics of people most likely to engage in certain behavior

- Businesses use profiling to find people who are likely customers for specific products and services.
- A few dozen federal agencies use computer profiling to identify people to watch- people who have committed no crime but might have a "propensity" to do so.
- Computer profiling and matching are the examples of secondary use of information.