Social Issues in Computing

- Analyzing and evaluating the issues of new technology: We consider:
 - **ATM (Automated Teller Machine):**
- 1. Why do you use ATM?
- Enables us to check our account balance
- Deposit and withdraw cash
- Make other banking transactions at any time of day and night
- At locations that are more accessible than our bank branch
- Transaction statement for a period

Social Issues in Computing

- 2. What are the negative aspects of ATMs?
- Unemployment
- Automation led to a decline in employment
- Alienation and Customer Service
- Removes the human contact between customers and a live teller
- Can be confusing to operate
- You may forget password
- You might have questions; it cannot answer

Social Issues in Computing

Crime

- People are robbed after withdrawing cash at ATM
- Stolen and counterfeit ATM cards are used by thieves to steal millions of dollars each year
- The anonymity of the machine makes ATM fraud easy

Loss of Privacy

- Transactions of ATMs are recorded in a database at a bank
- Records of a person's transactions at various ATM about the person's activities

Errors

Amount to be debited twice the amount of the actual withdrawal

- Unemployment problem:
- Fewer people employed as bank tellers but there are more people employed in computer related issues:
- Computer's shop
- Production
- Sales
- Computer's learning
- Use of computers for performing and rent applications

These did not exist in early 1980s.

- Alienation and Customer service:
- Anyone who wants to talk to a human teller can go into a bank during banking hour
- But Banking hours: 10 AM to 3 PM/5 PM days: Sunday to Thursday or
 : Monday to Friday
- Crime
- ATM Fraud is a serious problem
- The banking industry developed many approaches to reducing fraud and ATM crime.

- A large portion of our financial transactions including:
- Supermarket purchase
- Credit Card purchase
- Loan payments
- Income
- Web surfing can be tracked when we are browsing
- Cameras record our movement in public places

Recorded in computer database

 Governments maintain huge databases with personal information on us

Who should have access this information and how should it be protected from abuse and errors?

- There is no such technological system in the world that has
- i) Some ideal or perfect service
- ii) Zero side effects and risk

For any endeavor people continue seek cost-effective improvement and solutions to problem

In this course we consider

- Problems related to computer:
- Technical, Managerial, Legal, Educational, Marketbased etc.
- Solutions of several kinds
- Technical: Hardware and Software
- Managerial solutions: Helpful for business policies
- Legal solutions: Law enforcement, criminal penalties, lawsuits, legislation and regulations
- Market mechanisms such as competition and customer demand generate many improvements

Privacy and Personal Information

- Privacy is probably the "Computer Issue" that worries people most.
- There are three key aspects of privacy:
- Freedom from intrusion being left alone
- Control of information about oneself
- Freedom from surveillance (from being followed, watched and eavesdropped upon)
- Concerned for privacy may be regarded with a suspicious.
- "What do you have to hide?"