**Database And Web**

**Tutorial 1**

1. List four applications which you have used, that most likely used a database system to store persistent data.

2. What do you understand by a DBMS? What is the need of DBMS? Who need it?

3. If an organization has small dataset, will it be suitable for me to use a DBMS?

4. Is it important to have user friendly interface for accessing and using DBMS?

5. A medium sized Company deals with industrial applications of computers. The Company delivers various products to its customers ranging from a single application program through to complete installation of hardware with customized software. The Company employs various experts, consultants and supporting staff. All personnel are employed on long-term basis, i.e. there is no short-term or temporary staff. Although the Company is somehow structured for administrative purposes (that is, it is divided into departments headed by department managers) all projects are carried out in an interdisciplinary way. For each project a project team is selected, grouping employees from different departments, and a Project Manager (also an employee of the Company) is appointed who is entirely and exclusively responsible for the control of the project, quite independently of the Company's hierarchy.

With reference to the scenario described above, discuss

* What points would you consider while designing a database?
* What are the various types of data that need to be used in the system? Also give the format of the file structures for the same.
* Is there any scope for redundancy and inconsistency in the data files?
* What are the changes that you will have to incorporate each time a new functionality is to be added to the system?
* Will it be possible for you to allow different users of the system (employee, management etc) to perform different operations and have different privileges of accessing data? Is Security a key aspect?