In the last lesson you were asked to:

1. Read the handout about Information Processing Systems. Answer questions 1 - 3 only.

You had to ignore questions 4 & 5.

Storage of data: Chapter 9

2. Definitions:

- Database Organised collection of information.
- File stores a range of information.
- Record contains info about one person or thing. It can be numeric, character, date, logical (y/n)
- Field E.g a persons name or address in a record.
- Key Field May be used to search a file. It is best that this is unique to a particular record. E.g An admissions number for each member in a sports centre.

FILE ORGANISATION

- Serial files No particular order allows for the insertion of another record.
- Sequential files Like serial files but can be held in a certain sequence. E.g members in number order in a Sports Centre database.
- Random files As the name suggests, they are not stored in any particular order. They are held/stored on disc.

• QUESTION:

• What are the advantages and disadvantages of a database?

How do we access files?

- 1. Serial access reads each file until the desired one is found.
- 2. Sequential access Records are in order can be slower to find.
- 3. Direct access accesses files directly.

• Types of files:

- Master Files Most up to date and important file.
- Transaction file Can hold temporary data and be used to update the master file.
- Back-up or security file copies of originals.
- Grandfather/father/son principle 3 generations of file are kept. The oldest being the Grandfather, the youngest being the son!

• FIND OUT WHAT THE FOLLOWING MEANS:

- 1. Fixed and variable field lengths
- 2. Updating, insertions, deletions and amendments.
- 3. Sorting, merging, file interrogation and data analysis.