Databases –

Database defined “a structured set of data om a computer that can be accessed in various ways”.

Databases are integral for day to day uses.

Databases application allows us to input information between us and the dataset

A collection of data will be included with a DBMS.

1 complexity, a lot of information to process

2 simplicity, structured/digest

3 patterns,

4networks, networks can be large and constantly grow

5 common place, constantly grow but needs to be categorised.

6 not data, data + structure = information

7 context applying a meaning

8 convergence, draws links between things

<https://opentextbook.site/informationsystems2019/chapter/chapter-1-what-is-an-information-system-information-systems-introduction/>

**Study questions to comp**

1. **What are the five major components that make up an information system?**

“Hardware, software, data, people, and processes.”

1. **List the three examples of information system hardware?**

IBM PC, Laptop, Smartphone

1. **Microsoft Windows is an example of which component of information systems?**

Software

1. **What is application software?**

“Application software allows the user to perform tasks such as creating documents, recording data in a spreadsheet, or messaging a friend.”

1. **What roles do people play in information systems?**

“A focus on the people involved in information systems is the next step. From the front-line user support staff, to systems analysts, to developers, all the way up to the chief information officer (CIO)”

1. **What is the definition of a process?**

A process is a series of steps undertaken to achieve a desired outcome or goal.

1. **What was invented first, the personal computer or the Internet?**

Internet - 1970

1. **In what year were restrictions on commercial use of the Internet first lifted?**

“In 1991 the National Science Foundation, which governed how the Internet was used, lifted restrictions on its commercial use.”

1. **What is Carr’s main argument about information technology?**

It was becoming a commodity opposed to an investment

**Exercise**

1. Suppose that you had to explain to a friend the concept of an information system. How would you define it? Write a one-paragraph description *in your own words* that you feel would best describe an information system to your friends or family.
2. Of the five primary components of an information system (hardware, software, data, people, process), which do you think is the most important to the success of a business organization? Write a one-paragraph answer to this question that includes an example from your personal experience to support your answer.
3. –
4. Do you agree that we are in a post-PC stage in the evolution of information systems? Do some original research and cite it as you make your prediction about what business computing will look like in the next generation.