Chapter 1 System technologies

Unit 1 General concepts (Term 1)

1 Information processing cycle

- The information processing cycle consists of input, processing, output and storage.
 - Input is data being entered into a computing device using an input device.
 - Processing is when data is being translated into something useful by the CPU and RAM.
 - Output is when information is presented to the user after processing.
 - Information and data can be stored for future use.
- Computers can communicate data and information using a communication network.

2 Types of computers and typical features

2.1 Dedicated computers

- Dedicated computers are designed to perform a specific task rather than for general use.
- Examples include ATMs, washing machines and MP3 players.
- Computers housed in appliances or other equipment are called embedded computers.

2.2 Mobile computers and devices

- Mobile computers are designed to be easily portable.
- Mobile devices include PDAs, laptops and smart phones.
- A PDA (Personal Digital Assistant) is a small touch screen device that acts as an electronic diary.
- PDAs are primarily used for appointments and reading documents.
- A smart phone is a cellular phone with functions and features normally found on computers.
- PDA features include:
 - · ability to run third-party software
 - an up-to-date operating system, such as Android or Symbian
 - greater processing power than cell phones.
 - more storage space than a cell phone or PDA.
 - programm ability
 - e-mail facilities.
- Laptop computers have the same features and functions as desktop computers, but are designed to be mobile. Features include:
 - smaller size than desktop computers
 - input and output devices are integrated into the unit
 - ability to run from battery power, as well as a power outlet.
- A tablet computer uses a touch screen interface.
- A virtual keyboard is used instead of an actual physical keyboard.
- A tablet computer can accept handwritten notes and speech input.

2.3 Client/server

- This is a shortened way of saying client/server network.
- Computers that provide resources on a network are called servers.
- Computers that use resources on a network are called clients.

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Debra Wendt

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