

- 1 Chapter 1
Introduction to
Computers
- 2 Chapter 1 Objectives
- 3 The Digital Revolution
 - 1 **Where can you find computers?**
 - 2 ❖ **Computers are everywhere**
- 4 The Digital Revolution
 - 1 **What is computer literacy?**
 - 2 ❖ **Knowledge and understanding of computers and their uses**
- 5 What Is a Computer?
 - 1 **How is a computer defined?**
 - 2 ❖ **Electronic machine operating under the control of instructions stored in its own memory**
 - **Accepts data**
 - **Manipulates data**
 - **Produces results**
 - **Stores results**
- 6 What Is a Computer?
What are data and information?
- 7 What Is a Computer?
 - 1 **Who is a user?**
 - 2 ❖ **Person who communicates with a computer or uses the information it generates**
- 8 What Is a Computer?
What are hardware and software?
- 9 What Is a Computer?
What is the information processing cycle?
- 10 The Components of a Computer
What are common computer hardware components?
- 11 The Components of a Computer
 - 1 **What is an input device?**
 - 2 ❖ **Hardware used to enter data and instructions**
- 12 The Components of a Computer
 - 1 **What is an output device?**
 - 2 ❖ **Hardware that conveys information to a user**

- 13 The Components of a Computer
- 1 **What is the system unit?**
 - 2 ❖ **Box-like device containing electronic components connected to motherboard**
❖ **Also called a chassis**
- 14 The Components of a Computer
- What are two main components on the motherboard?**
- 15 The Components of a Computer
- 1 **What is a chip?**
 - 2 ❖ **Device with microscopic pathways that carry electrical currents**
❖ **Attaches to motherboard**
- 16 The Components of a Computer
- 1 **What is storage?**
 - 2 ❖ **Holds data, instructions, and information for future use**
- 17 The Components of a Computer
- What are common storage devices or drives?**
- 18 The Components of a Computer
- 1 **What is a floppy disk?**
 - 2 ❖ **Thin, circular, flexible disk enclosed in rigid plastic**
❖ **A Zip® disk is a higher capacity disk**
- 19 The Components of a Computer
- 1 **What is a hard disk?**
 - 2 ❖ **Provides much greater storage capacity than a floppy disk**
- 20 The Components of a Computer
- 1 **What is a compact disc?**
 - 2 ❖ **Portable storage media**
 - **CD-ROM**
 - **CD-RW**
 - **DVD-ROM**
 - **DVD+RW**
- 21 The Components of a Computer
- 1 **What is miniature storage media?**
 - 2 ❖ **Portable, thin, credit card size memory**
❖ **Used in digital cameras and handheld computers**
- 22 The Components of a Computer
- 1 **What is a communications device?**

- 2 ✦ Establishes a connection between two computers using cable, tele phone lines, and satellites
 ✦ One type is a modem
- 23 Why Is a Computer So Powerful?
What makes a computer powerful?
- 24 Computer Software
 1 **What is a computer program?**
 2 ✦ A series of instructions that tells the computer what to do
- 25 Computer Software
What happens when you run a program from a CD-ROM?
- 26 Computer Software
 1 **What is system software?**
 2 ✦ Programs that control the operations of the computer and its devices
- 27 Computer Software
 1 **What is the user interface?**
 2 ✦ Controls how you enter data and commands and how information displays
- 28 Computer Software
 1 **What is a graphical user interface (GUI)?**
 2 ✦ Uses visual images such as icons
- 29 Computer Software
 1 **What is application software?**
 2 ✦ Programs that perform specific tasks for users
- 30 Computer Software
What are shareware, freeware, public-domain software?
- 31 Computer Software
What is an application service provider (ASP)?
- 32 Computer Software
 1 **Who designs and writes software?**
 2 ✦ Systems analyst
 ✦ Programmer
- 33 Networks and the Internet
 1 **What is a network?**
 2 ✦ Collection of computers and devices connected together
- 34 Networks and the Internet
What are the reasons to network?

- 35 Networks and the Internet
- 1 **What is a local area network (LAN)?**
 - 2 ❖ **Network that connects computers in a limited geographic area**
- 36 Networks and the Internet
- 1 **What is a wide area network (WAN)?**
 - 2 ❖ **Network that covers large geographical area**
- 37 Networks and the Internet
- 1 **What is the Internet?**
 - 2 ❖ **Worldwide collection of networks that links millions of computers together**
- 38 Networks and the Internet
- Why do users access the Internet?**
- 39 Networks and the Internet
- How do users connect to the Internet?**
- 40 Networks and the Internet
- 1 **What is the World Wide Web (WWW)?**
 - 2 ❖ **Billions of documents, called Web pages, linked together on computers throughout the world**
- 41 Networks and the Internet
- How do you connect to Internet and display a Web page?**
- 42 Categories of Computers
- What are the categories of computers?**
- 43 Personal Computers
- What are the two most popular series of personal computers?**
- 44 Personal Computers
- 1 **What is a notebook computer?**
 - 2 ❖ **Portable, small enough to fit on your lap**
❖ **Also called a laptop**
❖ **Generally more expensive than a desktop computer**
- 45 Handheld Computers
- 1 **What is a handheld computer?**
 - 2 ❖ **Small computer that fits in your hand**
❖ **Also called a palmtop or pocket computer**
- 46 Handheld Computers
- How do you input data with a handheld computer?**

- 47 Handheld Computers
- 1 **What is a personal digital assistant (PDA)?**
 - 2 **✦ Provides personal organizer functions**
 - **Calendar**
 - **Appointment book**
 - **Address book**
 - **Calculator**
 - **Notepad**
- 48 Handheld Computers
- 1 **What are Web-enabled handheld computers?**
 - 2 **✦ Allow wireless Internet access**
- 49 Internet Appliances
- 1 **What is an Internet appliance?**
 - 2 **✦ Computer whose main purpose is to connect to Internet from home**
✦ Web TV is one example
- 50 Elements of an Information System
- 1 **What are information system elements?**
 - 2 **✦ Hardware**
✦ Software
✦ Data
✦ People
✦ Procedures
- 51 Examples of Computer Usage
- What are five categories of computer users?**
- 52 Examples of Computer Usage
- What software is available for a home user?**
- 53 Examples of Computer Usage
- What software is available for a small office/home office (SOHO) user?**
- 54 Examples of Computer Usage
- What is available for a mobile user?**
- 55 Examples of Computer Usage
- 1 **What are the needs of the large business user?**
 - 2 **✦ Network**
✦ Sales management
✦ Accounting
✦ Desktop publishing
✦ Information systems department
✦ Productivity software
✦ Scheduling
✦ Web access
✦ Telecommuting

- 56 Examples of Computer Usage
What are the needs of a power user?
- 57 Computer User as a Web Publisher
Why do users publish Web pages?
- 58 Summary of Introduction to Computers
- ❖ **The digital revolution**
 - ❖ **What is a computer?**
 - ❖ **The components of a computer**
 - ❖ **Why is a computer so powerful?**
 - ❖ **Computer software**
 - ❖ **Networks and the Internet**
 - ❖ **Categories of computers**
 - ❖ **Personal computers**
- 59 Summary of Introduction to Computers (cont'd)
- ❖ **Handheld computers**
 - ❖ **Internet appliances**
 - ❖ **Elements of an information system**
 - ❖ **Examples of computer usage**
 - ❖ **Computer user as a Web publisher**