

Shells Programs

- **Bourne Shell** The original command process
- **C shell** Command processor developed at Berkeley.
- **Korn shell** The new standard command processor.

Parts of a Command Line

- The shell prompt is where you enter a command line
- A command line consists of a command name, along with optional arguments (options and file names).
- Entering a command line results in a process in memory.

Redirection

- Use the left symbol (<) to redirect input from the keyboard to a file.
- Use the right symbol (>) to redirect output from the monitor to a file.

Connecting Processes

Use the vertical bar (:) to connect two processes with a pipe, by which the output of one process becomes the input of another.

Use the notation : tee to form a tee, by which you create a pipe with screen display.

Background Processes

- Use the ampersand (&) at the end of a command line to request background processing.
- Use the ps (process status) command to check the status of all active processes, foreground and background.

Chapter 3 quiz

1. What is the name of the official System V shell program?
 - A. The Bourne shell
 - B. The Korn shell
 - C. The C shell
 - D. The Clam Shell
2. Which of the following is required on every command line?
 - A. At least one command option
 - B. At least one file name
 - C. A command name
 - D. At least one user's name

3. After you enter a command line, what is activated in the best computer memory?
 - A. A command
 - B. A process
 - C. An activity
 - D. A function

4. Which of the following command lines would you use to redirect input from the file named TEST?
 - A. *command* > TEST
 - B. *command* >> TEST
 - C. *command* TEST : command
 - D. *command* < TEST

5. Which of the following command lines would you use to redirect output to the file named TEST?
 - A. *command* > TEST
 - B. *command* >> TEST
 - C. *command* TEST : command
 - D. *command* < TEST

6. Which of the following command lines would you use to redirect output to the file named TEST and append data to the file?
 - A. *command* > TEST
 - B. *command* >> TEST
 - C. *command* TEST : command
 - D. *command* : tee TEST

7. Which of the following command lines would you use to redirect output of a command to a file and also display the output on the screen?
 - A. *command* > file
 - B. *command* >> file
 - C. *command* file : command
 - D. *command* : tee file

8. Which command line would you use to run a command in the background?
 - A. *command* *
 - B. *command* &
 - C. *command* @
 - D. *command* #

9. Which command would you use to find out which command is running in the background?
 - A. date
 - B. who
 - C. ls
 - D. ps

10. Which command would you use to terminate a background process?
 - A. stop
 - B. cease
 - C. kill
 - D. desist

11. True or false: Its possible to place a sequence of UNIX commands in a file, make the file executable, and then execute the commands by entering the name of the file on a command line?

12. What is the name of the variable that indicates the first argument on a command line?
 - A. \$first
 - B. \$FIRST
 - C. \$one
 - D. \$1

13. What is the name of the Bourne shell's start-up file?
 - A. .profile
 - B. begins
 - C. sfile
 - D. start