

Chapter 15 Laboratory Exercise

Prelab Assignment

1. Why are files used in programming applications?
2. Why is buffered reading or writing used?
3. What is a wrapper class?
4. Write Java program that reads a data file and displays each line by writing it in reversed character order.

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1. Write and test a Java program that reads every line of text from a disk file and writes each word found in the file on a line of its own in a new data file. Assume that each word is surrounded by one or more blanks and the each line is terminated by a end of line character.

2. Write a Java program that reads a data file containing a person's name and the number of hours worked in a given week. For each person compute his or her gross pay (assuming the hourly rate of pay is \$10/hour). Assume that employees are paid time and a half for the hours worked over 40 hours a week. A display a report in an OutputBox that lists each persons name, the hour worked, and the amount paid. Your program should also display the total of the amount paid to all employees for the file being processed. Test your program by placing the following information in a text file.

Name	Hours	
Bill	40	
Sally	45	
Joan	25	
Alice	53	
Norma		42
Robert	36	

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Postlab Questions

1. What was the most difficult part of this lab?
2. What happens if you forget to close a file when you are writing to a disk on your computer system?
3. Can Java Applets read or write data files stored on disk?
4. Can Java objects be written to disk files?