

IST 256
Assignment 3
EMPLOYEE SALES REPORTS
Assignment 3 due Friday, November 19 by 5pm

In this application, there is an input file of employee sales data, and the program must read in the file and prepare two reports: one report is displayed on the form and the other report is written to an output file.

The form for this application will allow the user to select both the input and output files. While you are preparing the program, you will supply these files, but during the grading, we will run your program on our own files.

The form needs

- one button to read the file and display information to the form,
- three multiline labels or textboxes to display employees as described below,
- two more labels to display the number of male and female employees,
- a button to save the sales report to a file and a file status label

The input file will have one employee's data on each line, consisting of the employee name, the gender as a single character either M or F, the number of years of service, and 4 quarterly sales figures. The format of each line will be like the following example

Jessie Jones,F,3,1500,4000,7500,4200

To test your application, make up an input file that has about 9-10 employees. Please make sure that you have several people that fit each of the three categories for number of years, and for people who get bonuses or not. *Your program should work correctly for up to 20 employees in the input file.*

Your program should have a data class to store each employee with fields matching each item in the file and with methods as needed for the rest of the program.

The first button method should use a FileChooser, with showOpenDialog, for the user to select an input file. The method then reads data from the input file, reading all the employee data items on a line, saving the data into an array of Employees, and (possibly) processing the data to prepare for the displays of the first button.

Finally, the button should display employee data on the form. There should be one multiline label or text box to show every employee with fewer than 3 years, another to show every employee with 3 to 5 years, and a third one to show every employee with at least 6 years of service. For each employee, there should be a line under the appropriate label listing their name and the total sales for all quarters.

The number of male and female employees should also be displayed.

The second button will have a FileChooser, with showSaveDialog for the user to select an output file.

The output file will give a report on total sales and employee bonuses calculated from the data in the array.

- There should be a first line that gives the name of the report
- The next line should report the grand total of sales for all employees (formatted as currency)
- Skip two lines
- Give a line of data for each employee consisting of
 - The employee name
 - The total sales for that employee (formatted as currency)
 - Print the message “with bonus \$500” if the employee had total sales of over \$20,000 for the year.

An example line in the output file would be:

Jesse Jones \$26,200 with bonus \$500

Or if there were no bonus, it would just say

Jason Jackson \$19,000

GRADING

All programs should have comments that contain the name of the programmer and that explain the entire program and the role of each method, including buttons. Additional comments must be added as necessary to explain the actions of the program.

The following additional items will be included in the grading

- allow the user to choose the input and output files
- read in the data properly from the input file
- have an Employee class to save each employee’s information
- save employees into an array
- display the three different categories of employees with their total sales
- compute the number of males and females and display them
- compute the overall grand total sales and write into the output file
- correctly format each line of the output file with the name, total sales for that employee and awarding discounts based on the sales
- sales amounts formatted as currency

Zip your entire NetBeans project folder and submit it to the iLMS assignment dropbox.