IST 256

Assignment 3

EMPLOYEE SALES REPORTS

Assignment 3 due April 12 at the beginning of class

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 type in the name of both the input and output files. (While you are developing the program, you may want to disable this part to avoid typing in file names every time, but it is essential that the final version of the program allow the user to type in the input and output file names for grading purposes. That is, we are going to run your program on an input file that we have prepared.)

The form needs

- one button to read the file and display information to the form,
- a textfield for the input file name
- 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 textfield for the output file name

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.*

The button methods should get the input and output file names from textboxes and should give alerts if there are not two file names given (one for each method).

The program then reads data from the input file, reading all the employee data items on a line and processing the data to prepare for the displays and the file report.

In addition, the button should display employee data on the form. The data displayed in the employee part of the form should have each employee listed with their name and the total sales for all quarters of that one employee in one of the labels according to their years of service. An employee with fewer than 2 years should be listed in one multiline label or text box, with 2 to 4 years in another label or text box, and with at least 5 years to a third label or text box.

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

The data to be saved for the output report includes the grand total of all employee sales, the name and total sales for each employee. The latter items can be saved in two arrays, one for the names and one for the sales.

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 specify file names and check for missing file names
- read in the data properly from the input file
- save employee names and sales into arrays
- 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.