

MIST 4600. Spring 2014. Dr. Janine E. Aronson. Assignment E

As always, your initial file is LastnameFirstname-AssignmentE. Download the zipped BlueJ Project start folder, unzip it, and rename the unzipped folder with your Lastname and Firstname. When you finish this assignment, put your name and a comment about what works and what does not at the top of the main class where indicated. Save the BlueJ Project, close the BlueJ Project, zip the folder properly and submit the zipped file properly to eLC Assignment E. Note that if after you submit your file, you may submit an update until the due date. eLC will retain your most recent submission. Note that if the testers do not work, then you earn 0. Your code must interface properly with the testers.

I suggest that before you touch the keyboard, you look at and understand the existing code, and think about the task and how to accomplish it. Also, as soon as you make one or two changes to the code, recompile it.

You will start with the LastnameFirstname-AssignmentE BlueJ project. Use the PrintAllMoviesWithLoop project as a guide for this assignment. Carefully study the PrintAllMoviesWithLoop project to see the steps for creating and using a ReadFile object to read from a file. Copying and modifying what you will need from the PrintAllMoviesWithLoop project, in the PayrollPreparation class create a method called printEmployeeData() that will do the following, **all within the printEmployeeData () method:**

1. Create a new ReadFile object that will read the file *Payroll.txt*. Call your ReadFile object something appropriate (reader or myReader, etc.)
2. Use the ReadFile object to read in the first line of *Payroll.txt*. (Each line contains an employeeID, name, number of hours worked, payRate per hour, and payroll type: either an H for hourly or an S for salaried. Open the file in NotePad to see exactly what is inside.)

Note that payRate and any dollar amount in your program will have to be of type double, rather than int (integer). Example:
private double payRate;

3. Put in a while loop that will keep looping until you have hit the end of file (just like in PrintAllMoviesWithLoop).
4. Within the loop, pull off the relevant fields from the input line. (See how it is done in PrintAllMoviesWithLoops.)
5. Ignore the hourly employees – don't print anything out for them. To determine which are salaried employees, use the following if statement:

```
if(payrollType.equals("S"))
```

because == does not work for comparing Strings or comparing any objects because the comparison is done with memory pointers, not object values. It only works for primitives (like int, double, boolean). To compare Strings, we use the String method called equals.

Still within the loop, calculate straight pay (hours * payRate), print out a line for each of the salaried employees (only) with the employeeID, the name, the hours worked and pay amount.

6. At the end of the loop, read the next line of data.

7. After the loop, when all the employees in the payroll.txt file have been processed, print out a “trailer” line that says “No More Salaried Employees.”

8. Test your program to make sure it is correct. Run it yourself. Then try the tester.

9. Put your name and a comment about how well the program works or does not where indicated.

10. Exit BlueJ. Make sure you have named the BlueJ folder correctly. Zip it up. And submit it properly to the eLC Assignment.