**Project 1 Expectations**

Please review the information in the ***General Programming Expectations*** document placed in Week 2 after the **Week 2 Checklist** and as an attachment to this Project 1 thread.

**Obtaining data for Assignment 1**

For Project 1, you need to read in a file and assign the data to two arrays. In Item 4 of the pdf assignment there is a description of the elements that are contained in a file. There are three lines displayed as examples of the data in the file. The assignment invites you to make your own appropriate file based on those examples. To help insure consistency in grading and conversation among the members of the class, I have created a file that contains all the data that is exemplified by those three lines: **Employee.txt**. The file is a comma delimited file. There is only one difference between the example line for Employee and the actual file: I added a 0 in the sixth field of each line for the Employee field to make it consistent with the Salesman and Executive elements that already contain six lines. The following is the description of the file:

* Employee Year Record
* Employee Type
* Employee Last Name
* Employee First Name
* Employee Monthly Pay
* Employee Special Value
  + For Employee additional annual pay is 0
  + For Salesman additional annual pay is sales > sales \* .02 up to $20,000
  + For Executive additional annual pay is stock price: > if 50 or more then $30,000 added

To help in the coding of the assignment, there is an example of source code (***Reading File Into Array.docx***) that could be used in both reading a file into a program and assigning the fields into a two-dimensional array. The source code is an attachment in Project 1. There is a file also attached (***ArrayReadComma.txt***) to help illustrate the use of the source code.

Review the Suggested Design to help clarify the instructions of the assignment. You might find the alterative version of the assignment detailed below more comfortable to you.

**Suggested Design for Assignment 1**

Here is one skeleton design of this program.

package cmis242.prj1smithx;

[imports here]

public class CMIS242 PRJ1SmithX {

public static class Data Manipulation {

*[Declare two arrays for years]*

*[METHOD: Coding to read in file and assign to appropriate array]*

*[MEHTOD(s): update the various rows of each array]*

*[METHOD: Display the output]*

} //end public static Data Manipulation

public static class Employee {

*[Constructor (), annual salary, and toString]*

} // end public static class Employee

public static class Salesman extends Employee {

*[Constructor (), annual salary, and toString]*

} // end public static class Salesman extends Employee

public static class Executive extends Employee {

*[Constructor (), annual salary, and toString]*

} // end public static class Executive extends Employee

public static void main (String args[]) {

*[Declare instance of class]*

*[Call to read and assign file]*

*[Call to display output]*

} // end public static void main (String args []) {

} // end public class CMIS242 PRJ1SmithX

**Suggested Output for Assignment 1**

Below is one example of possible output for the program. [Note: Avoid the use of the tab key; it generates inconsistent results. The font type for the example is Courier New.]

[Your Name] Corporation

Employee name Type Monthly Pay Sales Stock Bonus Annual Pay

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John Smith Employee 2000.00 24000.00

George Bush Executive 5000.00 55.00 30000.00 90000.00

…

Bill Jones Salesman 3000.00 100000.00 2000.00 38000.00

…

Report for 2014 Employees: Average Salary is 999.99 [The 9 is used to demonstrate numbers.]

…

Fredrick Naismith Salesman 2100.00 90000.00 1800.00 27000.00

…

Report for 2015 Employees: Average Salary is 74335.56

Average Salary Difference between two years