Background for Assignment #3

public class useEmployee

The intention of assignment #3 is to ensure people understand the conceptional and applied aspects related to inheritance and polymorphism, both of which are needed for this assignment.

To help everyone get started, I have provided a sample driver and sample run, below. Please note that this is not the most solid/robust program -- there are many holes -- the intention is to test the implementation of the Employee, Manager, and Executive classes.

For this assignment in particular, please focus on creating the Employee, Manager and Executive classes to support the driver program displayed below.

```
public static void main(String[] args)
        Employee[] employees = new Employee[100];
        employees[0] = new Employee(5950, "Fred Yates", 37, 360000.00, "MTS 3", "Scientists");
        employees[1] = new Manager(1215, "Amanda Deleon", 53, 225000.00, "Manager Level 3", "Research and Development");
       employees[2] = new Employee(6120, "Susan B. Anthony", 37, 360000.00, "MTS 3", "Engineers"); employees[3] = new Employee(8978, "Tyron Rothschild", 23, 42000.00, "MTS 1", "Engineers");
        employees[4] = new Executive(2, "Baron Rothschild", 79, 500000.00, "Chairman", "Engineers", 0.15);
        ((Manager)(employees[1])).addEmployee(employees[0]);
        ((Manager)(employees[1])).addEmployee(employees[2]);
        ((Manager)(employees[1])).addEmployee(employees[3]);
        System.out.println("Amanda's direct reports: ");
        ((Manager)(employees[1])).printEmployeeList(); // why not use toString() here?
       System.out.println("\n--- All Employees ---\n");
       int i = 0;
       // employees[0].changeSalary(employees, 8978, 25000); ** OLD STYLE ** Why is this not optimal?
       employees[3].changeSalary(25000);
        while (employees[i] != null)
               System.out.println(employees[i++]);
        }
}
/*****************
Please be sure you can answer the two questions above.
Sample run:
Amanda's direct reports:
   Fred Yates
   5950
   37
   360000.0
   MTS 3
   Scientists
   Susan B. Anthony
   6120
   37
   360000.0
   MTS 3
   Engineers
   Tyron Rothschild
   8978
   23
   42000.0
   MTS 1
   Engineers
--- All Employees ---
   Fred Yates
   5950
   37
   360000.0
   MTS 3
   Scientists
   Amanda Deleon
   1215
   53
   225000.0
   Manager Level 3
   Research and Development
   Susan B. Anthony
   6120
   37
   360000.0
   MTS 3
   Engineers
   Tyron Rothschild
   8978
```

a.

b.

Notes:

23 67000.0 MTS 1 Engineers

2 79

500000.0 Chairman Engineers 0.15

Baron Rothschild

ask!

obtain full credit for this assignment.

If your program can support the functionality required to run the driver program displayed above you will

We will go over this program and the related assignment (#3) in class, so if there are any questions, please