

## JAVA PROGRAMMING LANGUAGE

### Assignment 8

1. Extend the *Person* class developed in Assignment 5 to derive classes for students, hourly employees, and full-time salaried employees. Determine an appropriate class inheritance hierarchy. These classes should have following fields, necessary constructors, and appropriate access and modifier methods.

For all employees:

- Department

Fulltime employees:

- Salary
- Benefits

Hourly employees:

- Hourly rate
- Number of hours worked each week (4 weeks)

Student:

- Classes taken and grades for each class (Use an ArrayList or resizable array)

The *Employee* class should override the *toString()* method to include the department.

The *FulltimeEmployee* should contain a method print the salary and benefits.

The *HourlyEmployee* class should contain the necessary methods that will print the total hours (four-week total), average hours per week worked by each employee, and the total wages during a four-week period.

The *Student* class should contain the necessary methods to print the transcript for each student.

Write a Tester class to test your classes.