

## CISC 3321

### Programming Assignment 12 (10 Pts)

Due at 10:00 PM Central (MyCampus)

Topic(s): Inheritance & Polymorphism

#### **Inheritance & Polymorphism:**

This assignment requires you to use inheritance and polymorphism.

You are to modify the payroll system provided on the class webpage (this should work as is and make sure you test it before modification) to include an additional employee derived class, *pieceworker*, that represents an employee whose pay is based on the number of pieces of merchandise produced. This new derived class should contain private instance variables *wage* that stores the employee's wage per piece and *pieces* that stores the number of pieces produced. You are to provide a concrete implementation of the method *earnings* in class *pieceworker* that calculates the employee's earning by multiplying the number of pieces produced by the wage per piece.

Create an array of employee variables to store references to objects of each concrete class in the new employee hierarchy. Then display each employee's string representation and earnings.